



WO HING
MANUFACTURING CO.

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WO HING MANUFACTURING CO.



專業製造:各類喉碼
水務配件



光身喉碼,冷水包膠,熱水包膠
平爆/拉爆螺絲





和興製品廠

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RM. 325 - 329, KWAI ON IND. BLDG., TAI LIN PAI ROAD, KWAI CHUNG, N. T.

TEL: 2425 2155 FAX: 2489 0871 Web site: <http://www.wo-hing.com.hk> E - mail address: info@wo-hing.com.hk

* Data For Pipe Bracket.

Pipe Bracket for (BS1387 / BS EN10255) Galvanized Iron Pipe.

		Pipe Size		Bracket	Screw & bolt	Round bar	Long screw	Screw end	Angle bar	Maximum Spacing (Reference only)		
		Inch	mm	(Flat bar)		Support	Support	Support	Support	Vertical Pipes	Horizontal Pipes	
* Round support		1/2"	15mm	21.7mm	3 x 14mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	2400mm	1800mm
		3/4"	20mm	27.2mm	3 x 14mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	3000mm	2400mm
* Long Screw Support		1"	25mm	34.2mm	3 x 14mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	3000mm	2400mm
		1-1/4"	32mm	42.9mm	3 x 14mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	3000mm	2700mm
		1-1/2"	40mm	48.8mm	3 x 14mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	3600mm	3000mm
		2"	50mm	60.8mm	3 x 18mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	3600mm	3000mm
		2-1/2"	65mm	76.6mm	3 x 25mm	6mm / M6	12mm	M12 / 1/2"	M12 / 1/2"	3 x 30mm	3600mm	3000mm
		3"	80mm	89.5mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	3 x 30mm	4500mm	3600mm
		4"	100mm	114.9mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	4 x 38mm	4500mm	3900mm
		6"	150mm	166.1mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	4 x 38mm	5400mm	4500mm
		8"	200mm	219mm	3 x 38mm	9mm / M10	15mm	M16 / 5/8"	M16 / 5/8"	4.5 x 38mm		
		10"	250mm	267mm	4 x 38mm	9mm / M10	15mm	M16 / 5/8"	M16 / 5/8"	4.5 x 38mm		
12"	300mm	318mm	4 x 50mm	12mm / M12	15mm	M16 / 5/8"	M16 / 5/8"	6 x 50mm				

Pipe Bracket for (BS5255 / 4514 / BS EN1329) Soil and Waste Pipe. (Insulated with white plastic collar.)

		Pipe Size		Bracket	Screw & bolt	Round bar	Long screw	Screw end	Bridge bar	Maximum Spacing (Reference only)		
		Inch	mm	(Flat bar)		Support	Support	Support	Support	Vertical Pipes	Horizontal Pipes	
* Round support		1/2"	15mm									
		3/4"	20mm									
* Long Screw Support		1"	25mm									
		1-1/4"	32mm	36.3mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	2.5 x 25mm	1200mm	600mm
		1-1/2"	40mm	42.9mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	2.5 x 25mm	1800mm	600mm
		2"	50mm	55.9mm	2 x 14mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	2.5 x 25mm	1800mm	900mm
		2-1/2"	65mm	68.9mm	2 x 15mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	2.5 x 30mm	1800mm	900mm
		3"	80mm	82.6mm	2.5 x 15mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	2.5 x 30mm	1800mm	900mm
		4"	100mm	110.2mm	2.5 x 18mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	2.5 x 38mm	1800mm	900mm
		6"	150mm	160.3mm	2.5 x 18mm	6mm / M6	12mm	M12 / 1/2"	M12 / 1/2"	2.5 x 38mm	1800mm	900mm
		8"	200mm	200.60mm	3 x 30mm	9mm / M10	15mm	M16 / 5/8"	M16 / 5/8"	4 x 38mm	1800mm	900mm

Pipe Bracket for (BS3505) Portable Water Pipe. (Insulated with white plastic collar.)

		Pipe Size		Bracket	Screw & bolt	Round bar	Long screw	Screw end	Bridge bar	Maximum Spacing (Reference only)		
		Inch	mm	(Flat bar)		Support	Support	Support	Support	Vertical Pipes	Horizontal Pipes	
* Round support		1/2"	15mm	21.2mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	700mm	600mm
		3/4"	20mm	26.6mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	700mm	600mm
* Long Screw Support		1"	25mm	33.4mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1200mm	600mm
		1-1/4"	32mm	42.1mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1200mm	600mm
		1-1/2"	40mm	48.1mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1800mm	600mm
		2"	50mm	60.2mm	2 x 14mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1800mm	900mm
		2-1/2"	65mm	75.1mm	2 x 15mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 30mm	1800mm	900mm
		3"	80mm	88.7mm	2 x 15mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 30mm	1800mm	900mm
		4"	100mm	114.1mm	2.5 x 18mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 38mm	1800mm	900mm
		6"	150mm	168mm	2.5 x 18mm	6mm / M6	12mm	M12 / 1/2"	M12 / 1/2"	3 x 38mm	1800mm	900mm
		8"	200mm	218.8mm	3 x 30mm	9mm / M10	15mm	M16 / 5/8"	M16 / 5/8"	4.5 x 38mm		

Pipe Bracket for (BS3506/JIS6741/JIS6742) Portable Water Pipe. (Insulated with grey plastic collar.)

		Pipe Size		Bracket	Screw & bolt	Round bar	Long screw	Screw end	Bridge bar	Maximum Spacing (Reference only)		
		Inch	mm	(Flat bar)		Support	Support	Support	Support	Vertical Pipes	Horizontal Pipes	
* Round support		1/2"	15mm	22mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	700mm	600mm
		3/4"	20mm	26mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	700mm	600mm
* Long Screw Support		1"	25mm	32mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1200mm	600mm
		1-1/4"	32mm	38mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1200mm	600mm
		1-1/2"	40mm	48mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1800mm	600mm
		2"	50mm	60mm	2 x 14mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1800mm	900mm
		2-1/2"	65mm	76mm	2 x 15mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 30mm	1800mm	900mm
		3"	80mm	89mm	2 x 15mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 30mm	1800mm	900mm
		4"	100mm	114mm	2.5 x 18mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 38mm	1800mm	900mm
		6"	150mm	165mm	2.5 x 18mm	6mm / M6	12mm	M12 / 1/2"	M12 / 1/2"	3 x 38mm	1800mm	900mm
		8"	200mm	216mm	3 x 30mm	9mm / M10	15mm	M16 / 5/8"	M16 / 5/8"	4.5 x 38mm		

Pipe Bracket for (BS EN545 / BS4772) Ductile Iron Pipe.

		Pipe Size		Bracket	Screw & bolt	Round bar	Long screw	Screw end	Angle bar	Maximum Spacing (Reference only)		
		Inch	mm	(Flat bar)		Support	Support	Support	Support	Vertical Pipes	Horizontal Pipes	
* Round support		3"	80mm	98mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	4 x 40mm	2700mm	2700mm
		4"	100mm	120mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	4 x 40mm	2700mm	2700mm
* Long Screw Support		6"	150mm	170mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	4 x 40mm	3600mm	3600mm
		8"	200mm	220mm	4 x 38mm	9mm / M10	15mm			5 x 50mm	3600mm	3600mm
		10"	250mm	272mm	4 x 38mm	9mm / M10	15mm			5 x 50mm	3600mm	3600mm
		12"	300mm	323mm	4 x 50mm	12mm / M12				6 x 50mm	3600mm	3600mm
		14"	350mm	376mm	5 x 50mm	12mm / M12				6 x 50mm	3600mm	3600mm
		16"	400mm	428mm	5 x 50mm	12mm / M12				6 x 50mm	3600mm	3600mm

* 10% of tolerance for dimension should be acceptance.

* The data above for reference only and the dimension of material could be change depend on customer's request.



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* Data For Pipe Bracket.

Pipe Bracket for (BSEN1057) Copper Pipe. (Insulated with white plastic collar.)

		Pipe Size		Bracket	Screw & bolt	Round bar	Long screw	Screw end	Bridge bar	Material: Stainless Steel #316		
		mm	Pipe-dia.	(Flat bar)		Support	Support	Support	Support	Maximum Spacing (Reference only)		
		Inch								Vertical Pipes	Horizontal Pipes	
* Round support		1/2"	15mm	15mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	700mm	600mm
		3/4"	20mm	22mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	700mm	600mm
* Long Screw Support		1"	25mm	28mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1200mm	600mm
		1-1/4"	32mm	35mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1200mm	600mm
* Screw-end support		1-1/2"	40mm	42mm	2 x 12mm	4.5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1800mm	600mm
		2"	50mm	54mm	2 x 14mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1800mm	900mm
* Bridge bar support		2-1/2"	65mm	66.7mm	2.5 x 15mm	6mm / M6	12mm	M12 / 1/2"	M12 / 1/2"	3 x 30mm	1800mm	900mm
		3"	80mm	76.1mm	2.5 x 18mm	6mm / M6	12mm	M12 / 1/2"	M12 / 1/2"	3 x 30mm	1800mm	900mm
		4"	100mm	108mm	2.5 x 25mm	6mm / M6	12mm	M12 / 1/2"	M12 / 1/2"	3 x 38mm	1800mm	900mm
		6"	150mm	159mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	4 x 38mm	1800mm	900mm

* The data above for bare pipe only and the material also suitable for cold and hot water system with suitable bracket's internal diemention.

Combine / Complex Pipe Bracket for (BSEN1057) Copper Pipe. (Insulated with white plastic collar.)

		Pipe Size		Bracket	Screw & bolt	Round bar	Long screw	Screw end	Material: Stainless Steel #316		
		mm	Distance (C x C)	(Flat bar)		Support	Support	Support	Maximum Spacing (Reference only)		
		Inch							Vertical Pipes	Horizontal Pipes	
		1/2"	2	50mm	2 / 4 x 18mm	6mm / M6	12mm	M10 / 3/8"	M10 / 3/8"	700mm	600mm
		1/2"	3	50mm	2 / 4 x 18mm	6mm / M6	12mm	M10 / 3/8"	M10 / 3/8"	700mm	600mm
		1/2"	4	50mm	2 / 4 x 18mm	6mm / M6	12mm	M10 / 3/8"	M10 / 3/8"	700mm	600mm
		3/4"	2	55mm	2 / 4 x 18mm	6mm / M6	12mm	M10 / 3/8"	M10 / 3/8"	700mm	600mm
		3/4"	3	55mm	2 / 4 x 18mm	6mm / M6	12mm	M10 / 3/8"	M10 / 3/8"	700mm	600mm
		3/4"	4	55mm	2 / 4 x 18mm	6mm / M6	12mm	M10 / 3/8"	M10 / 3/8"	700mm	600mm
		1"	2	60mm	2 / 4 x 18mm	6mm / M6	12mm	M10 / 3/8"	M10 / 3/8"	1200mm	600mm
		1"	3	60mm	2 / 4 x 18mm	6mm / M6	12mm	M10 / 3/8"	M10 / 3/8"	1200mm	600mm
		1"	4	60mm	2 / 4 x 18mm	6mm / M6	12mm	M10 / 3/8"	M10 / 3/8"	1200mm	600mm

Pipe Bracket for (BS416 / BS437 / BS1211 / BS4662) Cast Iron Pipe.

		Pipe Size		Bracket	Screw & bolt	Round bar	Long screw	Screw end	Angle bar	Material: Stainless Steel #316		
		mm	Pipe-dia.	(Flat bar)		Support	Support	Support	Support	Maximum Spacing (Reference only)		
		Inch								Vertical Pipes	Horizontal Pipes	
* Round support		2"	50mm	59.0 - 61.0mm	3 x 18mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	3600mm	3000mm
		3"	80mm	86.0 - 96.0mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	4 x 40mm	4500mm	3600mm
* Long Screw Support		4"	100mm	112.0 - 120.0mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	4 x 40mm	4500mm	3900mm
		6"	150mm	162.0 - 176.0mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	4 x 40mm	5400mm	4500mm
* Screw-end support		8"	200mm	220.0 - 222.0mm	3 x 38mm	9mm / M10	15mm	M16 / 5/8"	M16 / 5/8"	5 x 50mm	3600mm	3000mm
		9"	225mm	241.0 - 260.0mm	3 x 38mm	9mm / M10	15mm	M16 / 5/8"	M16 / 5/8"	5 x 50mm	3600mm	3000mm
* Angle bar support		10"	250mm	272.0 - 275.0mm	4 x 38mm	9mm / M10	15mm	M16 / 5/8"	M16 / 5/8"	5 x 50mm	3600mm	3000mm
		12"	300mm	315.0 - 332.0mm	5 x 50mm	12mm / M12				6 x 50mm	4500mm	3600mm
		14"	350mm	375.0 - 378.0mm	6 x 50mm	12mm / M12				100 x 50mm *	4500mm	3900mm
		15"	375mm	402.0 - 412.0mm	6 x 50mm	12mm / M12				100 x 50mm *	5400mm	4500mm
		16"	400mm	427.0mm	6 x 50mm	12mm / M12				150 x 75mm *		

** Channel bar support.

Pipe Bracket for (BS EN877) Epoxy Cast Iron Pipe.

		Pipe Size		Bracket	Screw & bolt	Round bar	Long screw	Screw end	Angle bar	Material: Stainless Steel #316		
		mm	Pipe-dia.	(Flat bar)		Support	Support	Support	Support	Maximum Spacing (Reference only)		
		Inch								Vertical Pipes	Horizontal Pipes	
* Round support		1-1/2"	40mm	48mm	2.5 x 12mm	5mm / M5	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1600mm	1200mm
		2"	50mm	58mm	2.5 x 14mm	6mm / M6	9mm	M10 / 3/8"	M10 / 3/8"	3 x 25mm	1600mm	1200mm
* Long Screw Support		2-1/2"	75mm	75mm	2.5 x 15mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	3 x 30mm	1600mm	1200mm
		3"	80mm	83mm	2.5 x 18mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	3 x 30mm	1600mm	1200mm
* Screw-end support		4"	100mm	110mm	3 x 25mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	3 x 30mm	1600mm	1200mm
		5"	125mm	135mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	3 x 30mm	1600mm	1200mm
* Angle bar support		6"	150mm	160mm	3 x 30mm	8mm / M8	12mm	M12 / 1/2"	M12 / 1/2"	4 x 38mm	1600mm	1200mm
		8"	200mm	210mm	3 x 38mm	9mm / M10	15mm	M16 / 5/8"	M16 / 5/8"	4 x 38mm	1600mm	1200mm
		10"	250mm	272mm	4 x 38mm	9mm / M10	15mm	M16 / 5/8"	M16 / 5/8"	4 x 38mm	1600mm	1200mm
		12"	300mm	323mm	5 x 50mm	12mm / M12	15mm	M16 / 5/8"	M16 / 5/8"	5 x 50mm	1600mm	1200mm
		14"	350mm	378mm	6 x 50mm	12mm / M12				6 x 50mm		
		16"	400mm	429mm	6 x 50mm	12mm / M12				100 x 50mm *		

** Channel bar support.

Pipe Bracket for (BS1387) Galvanized Iron Pipe. (Fire Service System)

		Pipe Size		Bracket	Screw & bolt	Angle bar	Material: Stainless Steel #316		
		mm	Pipe-dia.	(Flat bar)		Support	Maximum Spacing (Reference only)		
		Inch					Support	Vertical Pipes	Horizontal Pipes
		1/2"	15mm	21.7mm					
		3/4"	20mm	27.2mm					
		1"	25mm	34.2mm	3 x 25mm	6mm / M6	3 x 25mm	3000mm	2400mm
		1-1/4"	32mm	42.9mm	3 x 25mm	6mm / M6	3 x 25mm	3000mm	2700mm
		1-1/2"	40mm	48.8mm	3 x 25mm	6mm / M6	3 x 25mm	3600mm	3000mm
		2"	50mm	60.8mm	3 x 25mm	6mm / M6	3 x 25mm	3600mm	3000mm
		2-1/2"	65mm	76.6mm	3 x 25mm	8mm / M8	3 x 30mm	3600mm	3000mm
		3"	80mm	89.5mm	3 x 30mm	8mm / M8	3 x 30mm	4500mm	3600mm
		4"	100mm	114.9mm	3 x 38mm	10mm / M10	3 x 38mm	4500mm	3900mm
		6"	150mm	166.1mm	3 x 38mm	10mm / M10	3 x 38mm	5400mm	4500mm
		8"	200mm	219mm	4 x 38mm	12mm / M12	4 x 38mm		
		10"	250mm	267mm	4 x 38mm	12mm / M12	4 x 38mm		
		12"	300mm	318mm	5 x 50mm	12mm / M12	5 x 50mm		

* 10% of tolerance for dimention should be acceptance.

* The data above for reference only and the dimention of material could be change depend on customer's request.



NUTEK SYSTEMS, LTD.

Unit B, 13/F, Block A, Universal Ind. Ctr., 23-25 Shan Mei Street, Fo Tan, Shatin, N.T., Hong Kong.
Tel: (852) 2605 5736 Fax: (852) 2692 0798 E-mail: nutek@nuteksystems.com

TITLE : Testing of Pipe Bracket


OUR REFERENCE NO. : J17024

DESCRIPTION OF SAMPLE : 1) 1-1/4" Stainless steel single pipe bracket;
2) 1-1/2" Stainless steel single pipe bracket

SAMPLE SUBMITTED BY : Wo Hing Manufacturing Co.
Rm.240-241, Kwai On Ind. Bldg.,
Tai Lin Pai Road, Kwai Chung, N.T.

MANUFACTURER : Wo Hing Manufacturing Co.

BRAND : Wo Hing

MARKINGS ON THE RING :  316

TEST REQUIRED : Chemical composition test

PERIOD OF TESTS :

RESULTS: - (apply only to the samples tested)

CHEMICAL COMPOSITION TEST

		Element compositions (%)			
		Mn	Ni	Cr	Mo
1) 1-1/2" Stainless steel single pipe bracket	Ring	1.329	8.82	15.98	3.0
	Stem	1.2	9.36	16.51	3.0
2) 1-1/2" Stainless steel single pipe bracket	Ring	1.53	8.536	14.94	3.1
	Stem	1.1	10.65	17.49	3.1
BS EN 10088 – 1: 2005	grade 1.4432	≤2.00	10.5-13.0	16.5-18.5	2.50 – 3.00

Remark: The above chemical composition test result showed that the materials in accordance with BS EN 10088 – 1: 2005 is equivalent to stainless steel 316.


Date: 24 JUNE 2013 Authorized signature :

Sunny K.S. Wong

(Director)



TEST REPORT

TITLE : Testing of Stainless Steel Pipe Bracket
 OUR REFERENCE NO. : JC0170A
 DESCRIPTION OF SAMPLE : 5 pcs. of stainless steel pipe brackets with plastic cover on the bracket rings; size and quantity : $\frac{3}{4}$ " x 2pcs., 1" x 2pcs., $1\frac{1}{4}$ " x 1pc., $1\frac{1}{2}$ " x 1pc., 2" x 1pc.
 SAMPLE SUBMITTED BY : Wo Hing Manufacturing Co.
 Rm.240-241, Kwai On Ind. Bldg.,
 Tai Lin Pai Road, Kwai Chung, N.T.
 MANUFACTURER : Wo Hing Manufacturing Co.
 BRAND : Wo Hing
 MARKINGS ON THE RING :  316
 TEST REQUIRED : Chemical composition test
 PERIOD OF TESTS : 13th January to 13th February 2006


RESULTS: - (apply only to the sample tested)

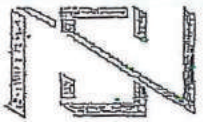
CHEMICAL COMPOSITION TEST

The bracket with size 2" was selected and subjected to this test; results are as follows:

		Element compositions (%)							
		C	Si	Mn	Mo	Ni	Cr	S	P
2" Pipe bracket sample	Ring	0.025	0.35	1.7	2.5	11.9	17.9	0.01	0.01
	Stem	0.028	0.28	1.65	2.6	11.5	17.7	0.01	0.01
BS1449: Part 2	grade 316S33	≤ 0.07	≤ 1.0	≤ 2.0	2.5 - 3.0	11.0 - 14.0	16.5 - 18.5	≤ 0.030	≤ 0.045
BS970: Part 1	grade 316S33	≤ 0.07	≤ 1.0	≤ 2.0	2.50 - 3.00	11.0 - 14.0	16.5 - 18.0	≤ 0.030	≤ 0.045
BSEN10088-1	grade 1.4436 (or X3CrNiMo17-13-3)	≤ 0.05	≤ 1.00	≤ 2.00	2.50 - 3.00	10.5 - 13.0	16.5 - 18.5	≤ 0.015	≤ 0.045

Remark: The above chemical composition test result complies with grade 316S33 of BS1449: Part 2, grade 316S33 of BS970: Part 1 and grade 1.4436 (or X3CrNiMo17-13-3) of BSEN10088-1.

Date: 18th February 2006 Authorized signature: 



NUTEK SYSTEMS, LTD.

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23-25 Shan Mei Street,
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Tel: (852) 2606 5736 Fax: (852) 2692 0798

TEST REPORT


TITLE : Testing of Stainless Steel Pipe Bracket
OUR REFERENCE NO. : JC0079
DESCRIPTION OF SAMPLE : 1) 100mm Stainless steel single pipe bracket;
2) 20mm x 4 Nos. stainless steel combined pipe bracket
SAMPLE SUBMITTED BY : Wo Hing Manufacturing Co.
Rm.240-241, Kwai On Ind. Bldg.,
Tai Lin Pai Road, Kwai Chung, N.T.
BRAND : WH
TEST REQUIRED : Chemical composition test
PERIOD OF TESTS : 19th to 27th July 2004

RESULTS:-

CHEMICAL COMPOSITION TEST

Sample	Element compositions (%)							Designation
	C	Si	Mn	Ni	Cr	S	P	
1) 100mm single pipe bracket	0.052	0.22	1.75	10.1	18.7	0.01	0.01	1) 304S15 (BS970 Part 1 and BS1449; Part 2)
2) 20mm combined pipe bracket	0.047	0.28	1.87	10.2	18.9	0.01	0.01	and 2) 1.4301 or X5CrNi18-10 (BSEN10088-1)

Note : the chemical composition test results for both samples comply with stainless steel grade 304S15 of BS970 part 1 (and BS1449; part 2) and stainless steel grade 1.4301 (or X5CrNi18-10) of BSEN10088-1.

Date : 29th July 2004 Authorized signature : 

Samson W.K. Yiu

(Director)


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東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

8/F, Block B, Veristrong Industrial Centre, 34 - 36 Au Pul Wan Street, Fofan, Sha Tin, Hong Kong
Tel: 2695 8318 Fax: 2695 8944 E-mail: eil@ets-testconsult.com Web Site: www.ets-testconsult.com

TEST REPORT

Chemical Analysis of Stainless Steel

Client : Wo Hing Manufacturing Co. Report No. : ANM90073
 Project : xxxx Page : 1 of 1
 Date of Issue : 8 Sept. 99
 Client's Ref. No. : xxxx Lab. Ref. No. : ETL/CL/99/
 Sample Description : Stainless steel pipe bracket M085-(01)
 sample with  mark. Date of Receipt : 2 Sept. 99
 Dated Tested : 7 Sept. 99

Test Result(s)

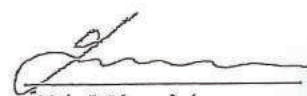
Lab. Ref. No.	Client's Sample ID	Element(s)	Test Method (s)	Result(s)
ETL/CL/99/ M085-(01)	xxxx	Carbon (C)	In-house method based on ASTM E353-93	0.03%
		Manganese (Mn)		1.00%
		Silicon (Si)		0.55%
		Phosphorus (P)		0.027%
		Sulphur (S)		<0.010%
		Nickel (Ni)		8.4%
		Chromium (Cr)		19.1%

Remarks (if any) : xxxx

Conclusion : The chemical composition of the submitted sample was found to comply with the requirements of AISI stainless steel grade 304.

Approved Signatory

Tested by : C. Y. Wong



Chief Chemist
C. L. Lau



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WO HING MANUFACTURING COMPANY

RM. 325 - 329, KWAI ON IND. BLDG., TAI LIN PAI ROAD, KWAI CHUNG, N. T.

Tel: 2425 2155 Fax: 2489 0871 Web site: <http://www.wo-hing.com.hk> E-mail: info@wo-hing.com.hk

Re: Job / Project Reference for “Wo Hing” stainless steel (Grade 316) pipe bracket..

Item	Job / Project / Location	Contractor / Customer	Housing	New Works	Repair	Years
1	協基工程	大圍嘉田苑			*	2013
2	協基工程	大圍景田苑			*	2013
3	源興工程	荃灣麗城花園三期			*	2013
4	鴻森工程	香港上環干諾道西海景大廈			*	2013
5	鴻森工程	旺角東方假日酒店			*	2013
6	順達建築	太子道嘉峰大廈			*	2013
7	順達建築	將軍澳景林村			*	2013
8	鴻森工程	元朗裕景坊祥發大廈			*	2013
9	香島建築	葵芳新葵芳花園			*	2013
10	遠大工程	九龍城明明閣			*	2013
11	大富工程	灣仔軒尼詩道廣德大廈			*	2013
12	大富工程	元朗建業街聯發洋樓			*	2013
13	大富工程	九龍城聯合道萬基樓			*	2013
14	大富工程	旺角花園街大安大廈			*	2013
15	大富工程	土瓜灣譚公道定安大廈			*	2013
16	維港建築	元朗青山公路華昌樓，華盛樓			*	2013
17	維港建築	元朗大棠道金朗大廈			*	2013
18	維港建築	元朗教育路豐興樓			*	2013
19	維港建築	元朗大馬路 177 號			*	2013
20	貴興建築	筲箕灣道 206-208 號			*	2013
21	達興建築	九龍太子道西蘭亭閣			*	2013
22	國華工程	觀塘物華街安寧大廈			*	2013
23	鴻森工程	土瓜灣韋背壟街富裕閣			*	2012
24	鴻森工程	香港寶珊道寶城大廈			*	2012
25	香島建築	北角雲景道富麗園			*	2012
26	萬和建築	土瓜灣木廠街錦堂樓			*	2012
27	唯一百建築	大埔頌雅苑			A/C	2012
28	美的裝飾	何文民俊民苑			*	2012
29	南華工程	深灣道南濤閣			*	2012
30	恆毅工程	西環西都大廈			*	2012
31	恆毅工程	黃大仙正鳳樓			*	2012
32	恆毅工程	北角電氣道 96 號			*	2012
33	利能建築	葵涌健康街致華工廠大廈			*	2012
34	利能建築	新填地街金山樓			*	2012
35	利能建築	深水步福華街榮華大廈			*	2012



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Re: Job / Project Reference for “Wo Hing” stainless steel (Grade 316) pipe bracket..

Item	Job / Project / Location	Contractor / Customer	Housing	New Works	Repair	Years
36	利能建築	筲箕灣道東安大廈			*	2012
37	利能建築	深水步基隆街華寶大廈			**	2012
38	南華工程	香港大坑煊康台 21 號			*	2012
39	達興建築	黃埔新村永康樓/遠華樓			*	2012
40	達興建築	香港大坑道竹麗苑			*	2012
41	貴興建築	土瓜灣鷹揚街 13-15 號			*	2012
42	維港建築	元朗青山公路元朗大廈			*	2012
43	維港建築	元朗阜財街怡景樓			*	2012
44	維港建築	元朗東堤街艷紅大廈			*	2012
45	維港建築	元朗西裕街金福閣			*	2012
46	維港建築	元朗西菁街好順泰大廈			*	2012
47	大富工程	觀塘協和街建德大廈			*	2012
48	美華建築	北角堡壘街怡寶洋樓			*	2012
49	美華建築	大角咀必發道必發大廈			*	2012
50	宏業建築	九龍喇沙利道 3-3A 號			*	2012
51	宏業建築	九龍城道聯業大廈			*	2012
52	宏業建築	香港銅鑼灣軒尼道勝華樓			*	2012
53	宏業建築	尖沙咀山林道俊源大廈			*	2012
54	連發建築	慈雲山芳華里敏華樓			*	2012
55	源興工程	屯門春和海景花園			*	2012
56	東洋工程	香港大坑光明臺			*	2012
57	國華工程	香港灣仔莊士敦道東興大廈			*	2011
58	國華工程	香港般咸道加威大廈			*	2011
59	東洋工程	屯門兆麟苑			*	2011
60	鴻森工程	元朗金碧花園			*	2011
61	力佳工程	屯門錦暉花園			*	2011
62	豪基建築	沙田馬會宿舍			*	2011
63	香島建築	粉嶺祥華村			A/C	2011
64	利能建築	彌敦道獨立大廈			*	2011
65	嘉明工程	中環砍賦街 17-21 號			*	2011
66	貴興建築	灣仔駱克道偉德大廈			*	2011
67	貴興建築	柴灣連城道建業大廈			*	2011
68	維港建築	元朗炮仗坊保定樓			*	2011
69	維港建築	元朗鳳攸南街好順利大廈			*	2011
70	維港建築	元朗教育路文丞樓			*	2011



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Re: Job / Project Reference for “Wo Hing” stainless steel (Grade 316) pipe bracket..

Item	Job / Project / Location	Contractor / Customer	Housing	New Works	Repair	Years
71	維港建築	元朗康景街鈞德樓			*	2011
72	樺昇工程	牛頭角振華苑			*	2011
73	大富工程	荃灣路德圍昌華大廈			*	2011
74	大富工程	灣仔軒尼詩道英京大廈			*	2011
75	宏業建築	尖沙咀柯士甸道豐樂大廈			*	2011
76	美華建築	觀塘道安祥大廈			*	2011
77	源興工程	火炭穗禾路碧霞花園			*	2011
78	恆毅工程	中環伊利近街 15-19 號			*	2011
79	恆毅工程	深水步鴨寮街慧賢閣			*	2011
80	日昌水喉	尖沙咀廣東道帝國大廈			*	2011
81	源昌工程	香港上環西摩道福澤花園			*	2011
82	連發建築	禮敦道澤豐大廈			*	2011
83	連發建築	旺角弼街利發大廈			*	2011
84	南華工程	香港克頓道慧苑			*	2011
85	俊豪建築	土瓜灣啟明街旺德大廈			*	2011
86	三益建築	大埔汀角路太平工業中心			*	2011
87	信城營造工程	香港西營盤醫院道榮華閣			*	2011
88	成發建築	香港柴灣道新翠花園			*	2011
89	豪基建築	香港摩囉街福禧苑			*	2010
90	豪基建築	觀塘藍田匯景花園			*	2010
91	豪基建築	將軍澳寶琳道康盛花園			*	2010
92	豪基建築	香港藍塘道翠屏苑			*	2010
93	豪基建築	香港司徒拔道銀輝大廈			*	2010
94	維港建築	元朗教育路寶城大廈			*	2010
95	維港建築	元朗永泰樓			*	2010
96	標威有限公司	界限街日和閣			*	2010
97	標威有限公司	銅鑼灣禮頓道宜興大廈			*	2010
98	安樂工程	太古城海天花園			*	2010
99	豪基建築	天水圍天愛苑			*	2009
100	豪基建築	黃大仙鳳鑽苑			*	2009
101	標威有限公司	西環正街華輝閣			*	2009
102	標威有限公司	屯門雅都花園			*	2009
103	標威有限公司	黃大仙天宏苑			*	2009
104	標威有限公司	葵涌和宜合道寶星中心			*	2008
105	新昌建築	屯門田景村			*	



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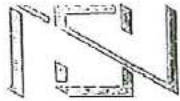
WO HING MANUFACTURING COMPANY

RM. 325 - 329, KWAI ON IND. BLDG., TAI LIN PAI ROAD, KWAI CHUNG, N. T.

Tel: 2425 2155 Fax: 2489 0871 Web site: <http://www.wo-hing.com.hk> E-mail: info@wo-hing.com.hk

Re: Job / Project Reference for “Wo Hing” stainless steel (Grade 316) pipe bracket..

Item	Job / Project / Location	Contractor / Customer	Housing	New Works	Repair	Years
106	新進建築	香港筲箕灣欣景花園			*	
107	富林營造	屯門兆康苑			*	
108	新恆威建築	北角僑冠大廈			*	
109	港澳（亞洲）工程	香港杏花村			*	
110	港澳（亞洲）工程	荃灣麗城花園一期			*	
111	香島建築	九龍灣麗晶花園			*	
112	富林營造	青衣青泰苑			*	
113	源興工程	九龍觀塘麗港城			*	
114	富林營造	將軍澳景林村			*	
115	富林營造	將軍澳富麗花園			*	
116	源興工程	九龍灣德寶花園			*	
117	源興工程	葵涌葵發路大德工廠大廈			*	
118	仁昌建築	香港羅便臣道燕貽大廈			*	
119	仁昌建築	香港堅道堅威大廈			*	
120	誠興建築	屯門市廣場三期			*	
121	富林營造	馬鞍山富寶花園			*	
122	誠興建築	屯門新圍苑			*	
123	新發記工程	大埔太湖花園			*	
124	富林營造	香港筲箕灣道太安樓			*	
125	科順給排水電工程	將軍澳富麗花園			*	
126	卓領工程	香港北角丹拿花園			*	
127	Jardine-China Overseas Venture	恆安站		KCRC		
128	Jardine-China Overseas Venture	大水坑站		KCRC		
129	Jardine-China Overseas Venture	沙田圍站		KCRC		
130	Jardine-China Overseas Venture	車公廟站		KCRC		
131	強記建築	沙田富豪花園			*	



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Tel: (852) 2605 5736 Fax: (852) 2692 0798


TEST REPORT

TITLE : Testing of Stainless Steel Pipe Bracket
OUR REFERENCE NO. : JC0079
DESCRIPTION OF SAMPLE : 1) 100mm Stainless steel single pipe bracket;
2) 20mm x 4 Nos. stainless steel combined pipe bracket
SAMPLE SUBMITTED BY : Wo Hing Manufacturing Co.
Rm.240-241, Kwai On Ind. Bldg.,
Tai Lin Pai Road, Kwai Chung, N.T.
BRAND : W H
TEST REQUIRED : Chemical composition test
PERIOD OF TESTS : 19th to 27th July 2004

RESULTS:- CHEMICAL COMPOSITION TEST

Sample	Element compositions (%)							Designation
	C	Si	Mn	Ni	Cr	S	P	
1) 100mm single pipe bracket	0.052	0.22	1.75	10.1	18.7	0.01	0.01	1) 304S15 (BS970 Part 1 and BS1449: Part 2)
2) 20mm combined pipe bracket	0.047	0.28	1.87	10.2	18.9	0.01	0.01	and 2) 1.4301 or X5CrNi18-10 (BSEN10088-1)

Note : the chemical composition test results for both samples comply with stainless steel grade 304S15 of BS970 part 1 (and BS1449: part 2) and stainless steel grade 1.4301 (or X5CrNi18-10) of BSEN10088-1.

Date : 28th July 2004 Authorized signature : 

Samson W.K. Yiu

(Director)


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Tel: 2695 8318 Fax: 2695 3944 E-mail: el@ets-testconsult.com Web Site: www.ets-testconsult.com

TEST REPORT

Chemical Analysis of Stainless Steel

Client : Wo Hing Manufacturing Co. Report No. : ANM90073
Project : xxxx Page : 1 of 1
Client's Ref. No. : xxxx Date of Issue : 8 Sept. 99
Sample Description : Stainless steel pipe bracket Lab. Ref. No. : ETL/CL/99/
sample with  mark. M085-(01)
Date of Receipt : 2 Sept. 99
Dated Tested : 7 Sept. 99

Test Result(s)

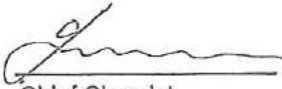
Lab. Ref. No.	Client's Sample ID	Element(s)	Test Method (s)	Result(s)
ETL/CL/99/ M085-(01)	xxxx	Carbon (C) Manganese (Mn) Silicon (Si) Phosphorus (P) Sulphur (S) Nickel (Ni) Chromium (Cr)	In-house method based on ASTM E353-93	0.03% 1.00% 0.55% 0.027% <0.010% 8.4% 19.1%

Remarks (if any) : xxxx

Conclusion : The chemical composition of the submitted sample was found to comply with the requirements of AISI stainless steel grade 304.

Approved Signatory

Tested by : C. Y. Wong



Chief Chemist

C. L. Lau



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WO HING MANUFACTURING COMPANY

RM. 240 - 241, KWAI ON IND. BLDG., TAI LIN PAI ROAD, KWAI CHUNG, N. T.

TEL: 2425 2155

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Web site: <http://www.wo-hing.com.hk>

E - mail address: info@wo-hing.com.hk

To whom it may concern;

Job-reference of stainless steel pipe-hangers.(Grade #304)

Item	Constructor / Customer	Location	Housing	New Works	Replumbing	Years
1	Leighton Construction (Asia) Limited	4D, Shatin.		*		
2	Yau Lee Construction Company Limited	Ph 3 & 4, Yiu Tung Estate.	*			
3	Yau Lee Construction Company Limited	Redevelopment of Princess Margaret Hospital.				
4	Man Kee Plumbing Engineering Company	Dist. 34, Tseun Kwan O.		*		
5	Kin Yip Plumbing Engineering Company	Ph 4, Kwai Fong Estate.	*			
6	Kat's Construction Company	Siu Sai Wan.		*		
7	Tai Yip Construction Company Limited	56 - 58, Conduit Road.		*		
8	Luen On Construction Engineering Company	376 - 378, Tai Nam Street.		*		
9	Golden Day Engineering Company Limited	Tai O Project.		*		
10	Cheavalier Construction Company Limited	Siu Sai Wan.		*		
11	Shui On Construction Company Limited	Phase 2, Tung Chung.	*	*		
12	Yau Lee Construction Company Limited	Tse On Estate.	*	*		
13	Cheavalier Construction Company Limited	T. K. 55, Tseun Kwan O.	*	*		
14	Shui On Construction Company Limited	Tsui Wan Estate.	*	*		
15	Yau Lee Construction Company Limited	Choi Wan Estate.	*	*		
16	Fung Cheung Kee Construction Company Limited	Phase 3, Tseun Kwan O.	*	*		
17	Wing Hon Construction Company Limited	Phase 4, Shek Lai Estate.	*	*		
18	China State Construction Engineering Corporation	Phase 4, Sau Mau Ping Estate.	*	*		
19	Fung Cheung Kee Construction Company Limited	Phase 3, Lam Tin Estate.	*	*		
20	Cheavalier Construction Company Limited	Phase 1, Kowloon West.	*	*		
21	Sing Fat Construction Company Limited	Chun Shek Estate.	*		*	
22	China State Construction Engineering Corporation	Fung Lai Road, Fung Wong Estate.	*	*		
23	Sing Fat Construction Company Limited	Tai Yuen Estate.	*		*	
24	Hong Kong Macau Engineering Company Limited	Tai Hing Estate.	*		*	
25	Keung Kee Construction Limited	Wan Tsui Estate.	*		*	
26	Keung Kee Construction Limited	Cheung Hon Estate.	*		*	



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WO HING MANUFACTURING COMPANY

RM. 240 - 241, KWAI ON IND. BLDG., TAI LIN PAI ROAD, KWAI CHUNG, N. T.

TEL: 2425 2155

FAX: 2489 0871

Web site: <http://www.wo-hing.com.hk>

E - mail address: info@wo-hing.com.hk

Job-reference of stainless steel pipe-hangers.(Grade #304)

Item	Constructor / Customer	Location	Housing	New Works	Replumbing	Years
27	China State Construction Engineering Corporatio	Phase 4, Kwai Shing Estate(East).	*	*		
28	Hsin Chong Construction Company Limited	395, Tuen Mun.	*	*		
29	Yau Lee Construction Company Limited	Ap Lei Chau Estate.	*	*		
30	Paul Y.-ITC (E & M) Contractors Limited	Phase 2, Area 30, Tin Shui Wai.	*	*		
31	Shum Shing Construction Limited	Phase 1, Hung Hom Estate.	*	*		
32	Yau Lee Construction Company Limited	Tong Ming Court, Tseun Kwan O	*	*		
33	Nishimatsu Sintec Construction Limited	Phase 3, Area 3, Tin Shui Wai.	*	*		
34	Hong Kong Macau Engineering Company Limite	Wu King Estate.	*			*
35	Hong Kong Macau Engineering Company Limite	Butterfly Estate.	*			*
36	Keung Kee Construction Limited	Fung Wah Estate.	*			*
37	Sing Fat Construction Company Limited	Yue Wan Estate.	*			*
38	Yau Lee Construction Company Limited	Phase 1, 49A, Fanling.	*	*		
39	Yau Lee Construction Company Limited	Phase 2, Ma Heng Estate.	*	*		
40	Kwong Tai Construction Company Limited	Lei Cheng Uk Estate.	*			*
41	Kwong Tai Construction Company Limited	Nam Cheong Estate.	*			*
42	Gammon Construction Company Limited	Phase 4, Pak Tin Estate.	*	*		
43	Yau Lee Construction Company Limited	Phase 1, South Ho Man Tin.	*	*		
44	Cheavalier Construction Company Limited	Area 405, Tuen Mun.	*	*		
45	Shui On Construction Company Limited	Phase 3, Un Chau Estate.	*	*		
46	Kwong Tai Construction Company Limited	Lei Yiu Estate.	*			*
47	Hip Hing Construction Company Limited	Phase 1, Area 30, Tung Chung.	*	*		
48	Hip Hing Construction Company Limited	Phase 5, Sau Mau Ping.	*	*		
49	Hip Hing Construction Company Limited	Phase 15, Sau Mau Ping.	*	*		
50	Paul Y.-ITC (E & M) Contractors Limited	Phase 1, 14B, Sha Tin.	*	*		
51	Paul Y.-ITC (E & M) Contractors Limited	Phase 2, 14B, Sha Tin.	*	*		
52	Paul Y.-ITC (E & M) Contractors Limited	Phase 3, 14B, Sha Tin.	*	*		
53	Paul Y.-ITC (E & M) Contractors Limited	Phase 4, 14B, Sha Tin.	*	*		



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Item	Constructor / Customer	Location	Housing	New Works	Replumbing	Years
54	Paul Y.-ITC (E & M) Contractors Limited	Phase 5, 14B, Sha Tin.	*	*		
55	Techoy Construction Company Limited	Fu Heng Estate.	*		*	
56	Techoy Construction Company Limited	Chak On Estate.	*		*	
57	Yau Lee Construction Company Limited	Phase 1, Cheung Sha Wan West.	*	*		
58	Yau Lee Construction Company Limited	Phase 2, Cheung Sha Wan West.	*	*		
59	Hip Hing Construction Company Limited	Phase 3, Cheung Sha Wan West.	*	*		
60	Ngo Kee Construction Company Limited	Phase 2, Yau Tong Estate.	*	*		
61	Ngo Kee Construction Company Limited	Hung Hom Bay.	*	*		
62	Leighton Construction (Asia) Limited	Phase 4, Area 110, Tin Shui Wai.	*	*		
63	Yau Lee Construction Company Limited	Phase 4, Po Lam Road.	*	*		
64	Hip Hing Construction Company Limited	Phase 2, Lai Chi Kok.	*	*		
65	Hip Hing Construction Company Limited	Kowloon Station, Phase 4.		*		
66	Hsin Chong Construction Company Limited	Phase 1, Area 101, Tin Shui Wai.	*	*		
67	Cheavalier Construction Company Limited	Phase 2, Area 110, Tin Shui Wai.	*	*		
68	Hip Hing Construction Company Limited	Phase 3, Lai Muk Shue Estate.	*	*		
69	Hip Hing Construction Company Limited	Phase 5, Kwai Chung Estate.	*	*		
70	Sanfield Construction Company Limited	Kowloon Station, Phase 3.		*		
71	Paul Y.-ITC (E & M) Contractors Limited	Tung Chung Station Development Package 3, Contract (TCTL5) Ph. 4 & 5.		*		
72	Yau Lee Construction Company Limited	Phase 3, Kwai Chung Estate.	*	*		
73	Dawn Enterprise Limited	Tin Shui Wai, Tin Yiu (1) and (2) Estate.	*		*	
74	Sanfield Construction Company Limited	Noble Hill, Sheung Shui.		*		
75	K - Peak Company Limited	Shek Wai Kok Estate.	*		*	
76	K - Peak Company Limited	Kwai Fong Estate.	*		*	
77	Kwong Tai Construction Company Limited	Kwai Shing East Estate.	*		*	
78	Sanfield Construction Company Limited	Kowloon Station, Phase 6.		*		
79	K - Peak Company Limited	Wan Tau Hom Estate.	*		*	
80	K - Peak Company Limited	Choi Fai Estate.	*		*	



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Item	Constructor / Customer	Location	Housing	New Works	Replumbing	Years
81	Yick Hing Construction Company Limited	Tai Wo Hau Estate.	*		*	
82	Hop Hing Construction Company Limited	Shek Lei (1) Estate.	*		*	
83	Sun Cheong Construction Company Limited	Sha Tin, Yue Tin Court.			*	
84	Build Jet Engineering Limited	On Yam Estate.	*		*	
85	Allied Fine Engineering Limited	Shun Tin Estate.	*		*	
86	Sun Cheong Construction Company Limited	Whampoa Estate, Hung Hom.			*	
87	Tapbo Construction Company Limited	Ravana Garden, Shatin.			*	
88	Housing Authority (Air Condition)	Ho Man Tin Estate, Kowloon.	*			
89	Wah San Construction Company Limited	Tze Ching Estate, Kowloon.	*		*	
90	Wah San Construction Company Limited	Lok Fu Estate, Kowloon.	*		*	
91	Housing Authority (Air Condition)	Wah Sam Estate, N. T.	*			
92	Housing Authority (Air Condition)	Hing Man Estate, Hong Kong.	*			
93	Housing Authority (Air Condition)	Yiu Tung Estate, Hong Kong.	*			
94	Housing Authority (Air Condition)	Wan Choi Estate, Hong Kong.	*			
95	Housing Authority (Air Condition)	Wo Che Estate, N. T.	*			
96	Housing Authority (Air Condition)	Kwai Fong Estate.	*			
97	Housing Authority (Air Condition)	Tin Yiu Estate.	*			
98	Housing Authority	Sui Fai Factory Estate.	*		*	
99	Housing Authority (Air Condition)	On Yam Estate.	*			
100	Housing Authority (Air Condition)	Kai Yip Estate.	*			
101	Housing Authority (Air Condition)	Shek Wai Kok Estate.	*			
102	Housing Authority (Air Condition)	Fuk Loi Estate.	*			



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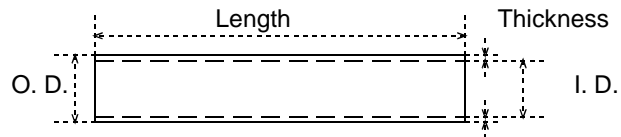
GALVANIZED STEEL PIPE SLEEVE

鉛水喉套坭

PRODUCT INFORMATION

PRODUCT

- * Galvanized steel pipe.
- * Plain End.
- * Size from 25mm to 200mm.
- * Standard length 6000mm.



BRAND NAME

Wo Hing

STANDARD

Hot Dip Galvanized to BS729.

APPLICATION

Use as pipe sleeve.

PIPE SLEEVE

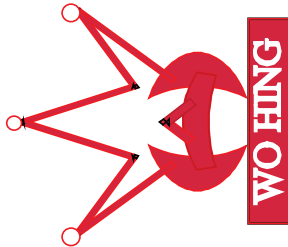
- * Sleeve length as customer's request.
- * Cut edge would be protected by Epoxy Primer as request.



DIMENSIONS

Nominal Size (DN)		Outside Diameter	Inside Diameter	Wall Thickness	Pipe Length	Remark
mm	inch	mm	mm	mm	mm	
25	1"	34.2	29.2	1.0	6000	
32	1-1/4"	42.9	39.9	1.0	6000	
40	1-1/2"	48.8	45.8	1.0	6000	
50	2"	60.8	57.8	1.0	6000	
65	2-1/2"	76.6	72.6	1.0	6000	
80	3"	89.5	85.5	1.0	6000	
100	4"	114.9	111	1.2 ~ 1.5	6000	
125	5"	137.2	132	1.2 ~ 1.5	6000	
150	6"	166.1	161	1.2 ~ 1.5	6000	
200	8"	219	214	1.5 ~ 2.0	6000	

Remark: 10% of tolerance should be accept for the above data.



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THE HARRIS PRODUCTS GROUP

A LINCOLN ELECTRIC COMPANY

4501 Quality Place Mason, Ohio 45040 U.S.A. Tel: +1 (513) 754-2000 Fax: +1 (513) 754-8700

Harris 0 Silver Phoscopper Brazing Alloy

“Harris” 牌銀焊支

Size: 0.050" X 1/8" (1.3mm X 3.2mm)

Certificate of Conformance

Description: PC0-.050 X 1/8 X 28 STICK TUBE

Ship to: FAST TRADE
PC0 .050 X 1/8 X 20" X 28 STICK TUBE

Date: 10/8/2014 10:53:19AM

Part Number: 0620F1

P.O. Number:

Heat Number:

Specifications: AWS A5.8 BCuP-2



Chemical Composition Limits* %

Antimony	Cadmium	Silicon	Tin
Aluminum	Niobium (Cb)	Phosphorus	Tungsten
Bismuth	Hydrogen	Sulfur	Vanadium
Beryllium	Iron	Nickel	Zinc
Boron	Lead	Nitrogen	CeO2
Carbon	Lithium	Silver	LaO2
Chromium	Magnesium	Oxygen	ThO2
Copper	REMAINDER	Molybdenum	Tantalum
Cobalt	Manganese	Titanium	Remainder
		Zirconium	Other:
			Ferite (WRC FN)

*Single values are maximum percentages unless otherwise noted.

This certificate of conformance confirms the above product meets the requirements for the listed specification and classification. Results are reported for the outcome of tests performed using typical material of that classification and does not provide results from a specific run, lot, or heat number.



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POWERFLOW FLUX

- Well established product
- Self cleaning
- Easy to apply
- Effective soldering flux
- WRAS - Approved Product
- Suitable for both lead containing and lead free solder alloys



Product Uses

Powerflow is a white 'soft' paste which is easily applied to joint areas prior to soldering. It is designed specifically for the soldering of copper plumbing systems and is suitable for use with a range of metals/alloys. It contains no zinc chloride.

Physical Properties

Colour:	White
Odour:	Mild
Form:	Paste
pH:	< 2
SG:	1.1 @ 20°C

Application and Dosage

Clean the pipe to remove metal swarf/grease. Apply the flux carefully to the outside of the pipe surface in the area in which the joint is to be made. Only a very thin layer of flux is required. We do not recommend applying this to the inside of the fitting because any excess flux will be pushed into the tube when pushing the two halves of the joint together. Do not use too much flux. When soldering Powerflow Flux can be used effectively with both end feed and integral ring solder fittings. It is also appropriate for lead containing or lead free solders. Fry Powerflow wire or Fry Grade 99C wire are recommended.

To minimise the likelihood of corrosion difficulties it is recommended that the system be flushed out with water as soon as possible after completion. This can be aided by the use of a proprietary cleaner such as Fernox Cleaner F3.

Gas or Water

Powerflow Flux is WRAS approved. It passed tests for use in both hot and cold water systems and is listed in the UK Water Fittings and Materials Directory.

Powerflow Flux has been successfully used in gas systems for many years. However there are people who prefer not to use a self-cleaning flux in a gas pipe system. If this is a concern, then Fry Fluxite Paste flux is recommended.

Packaging, Handling and Storage

Powerflow Flux is classified as irritant. Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical advice immediately and show this container or label.



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FERNOX 99C LEAD FREE SOLDER WIRE

Lead free wire for use on potable water supplies
Manufactured to BS EN 29453
Produce perfect joints

Fernox is the leading internationally recognised brand of solder alloys and fluxes for potable water, plumbing and heating applications.

The Fernox 99C lead free solder wire is specially designed for potable water applications, and is manufactured in Europe by Alpha in the Netherlands and Hungary. Both Alpha sites involved in the manufacturing of the Fernox 99C lead free solder wire are certified against the following quality standards: ISO 9001, ISO 14001 and ISO TS16949.



All Fernox solder wire products meet the internationally recognised requirements of BS EN 29453 (ISO 9452) and RoHS and REACH regulations.

As per the RoHS standard the maximum allowable lead (Pb) content in lead free solder wire is 0.1%, but the Fernox 99C wire is manufactured to meet the even more stricter Alpha internal standards of an allowable lead content of <0.07%.

This assures that the Fernox 99C solder wire fulfils the health and safety requirements for drinking water installations. The Fernox fluxes that should be used in conjunction with the Fernox C99 solder wire are WRAS (Water Regulations Advisory Scheme) approved products.

Attachment:
RoHS and REACH compliance declaration

Jan Dekker

Antoine Pouwels

Regional EH&S Alent
Regulatory and REACH Manager Alpha

Quality Director Alent Europe

ALM





Purpose

The declaration below is intended for use as disclosure of the substances contained in products supplied by Alpha, an Alent plc company. This disclosure is provided for manufacturers of Electrical and Electronic Equipment (EEE) and sub assemblies of EEE and the End of Life Vehicles Directive.

Date	February 9, 2015
Company Name	ALPHA®, an Alent company
Product Name	ALPHA Solder Alloy 99.3Sn /0.7Cu
Alloys	99.3Sn/0.7Cu
Product Total Mass (g)	Not applicable – bulk material, concentrations reported in ppm

Materials and Substances

The table below references Level A and B Materials and Substances indicated in the Joint Industry Guide – Material, JIG-101A Composition Declaration Guide September 18th 2007 and the End of Life Vehicles Directive 2000/53/EU and Global Automotive Declaration Substances List (GADSL). This includes the materials defined in Article 4.1 of the European Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive). It also includes references to the European Chemicals Agency (ECHA), for the identification of Substances of Very High Concern (SVHC) – the REACH Regulation as defined in Article 57 of Regulation (EC) No. 1907/2006.

RoHS Substances

Material/Substance	Threshold Level	Material/Substance Concentration
Cadmium/Cadmium Compounds	100ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
Hexavalent Chromium/ Hexavalent Chromium Compounds	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
Lead/Lead Compounds	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
Mercury/Mercury Compounds	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
Polybrominated Biphenyls (PBBs)	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
Polybrominated Biphenylethers (PBDEs)	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added

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REACH SVHC Substances

#	Substance Name	CAS #	Concentration Threshold (PPM)	Material / Substance Concentration
1	Anthracene	120-12-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
2	4,4'- Diaminodiphenylmethane	101-77-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
3	Dibutyl phthalate	84-74-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
4	Cobalt dichloride	7646-79-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
5	Diarsenic pentaoxide	1303-28-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
6	Diarsenic trioxide	1327-53-3	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
7	Sodium dichromate, dihydrate	10588-01-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
9	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
10	Hexabromocyclododecane (HBCDD)	25637-99-4; 3194-55-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
12	Bis(tributyltin) oxide,hexabutylidistannoxane	56-35-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
13	Lead hydrogen arsenate	7784-40-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
14	Triethyl arsenate	15606-95-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
15	Benzyl butyl phthalate	85-68-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
16	2,4-Dinitrotoluene	121-14-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
17	Anthracene oil	90640-80-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
18	Anthracene oil, anthracene paste	90640-81-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
20	Anthracene oil, anthracene paste, distn. lights	91995-17-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
21	Anthracene oil, anthracene-low	90640-82-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
22	Diisobutyl phthalate	84-69-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
23	Lead chromate	7758-97-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added

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#	Substance Name	CAS #	Concentration Threshold (PPM)	Material / Substance Concentration
26	Pitch, coal tar, high temp.	65996-93-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
27	Tris(2-chloroethyl)phosphate	115-96-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
28	Acrylamide	79-06-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
29	Trichloroethylene	79-01-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
30	Boric acid	10043-35-3	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
31	Disodium tetraborate, anhydrous	1330-43-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
33	Sodium chromate	7775-11-3	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
34	Potassium chromate	7789-00-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
35	Ammonium dichromate	7789-09-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
36	Potassium dichromate	7778-50-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
37	2-Ethoxyethanol	110-80-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
38	2-Methoxyethanol	109-86-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
39	Chromic acid	7738-94-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
40	Chromium trioxide	1333-82-0	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
41	Cobalt(II) carbonate	513-79-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
42	Cobalt(II) diacetate	71-48-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
43	Cobalt(II) dinitrate	10141-05-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
44	Cobalt(II) sulphate	10124-43-3	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
45	1,2,3-Trichloropropane	96-18-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
48	1-Methyl-2-pyrrolidone	872-50-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
49	2-Ethoxyethyl acetate	111-15-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
50	Hydrazine	302-01-2 / 7803-57-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
51	Strontium chromate	7789-06-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
52	Dichromium tris(chromate)	24613-89-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added

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#	Substance Name	CAS #	Concentration Threshold (PPM)	Material / Substance Concentration
53	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
54	Pentazinc chromate octahydroxide	49663-84-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
55	Aluminosilicate Refractory Ceramic Fibres (RCF)	-	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	-	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
58	Bis(2-methoxyethyl) phthalate	117-82-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
59	2-Methoxyaniline; o-Anisidine	90-04-0	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
61	1,2-Dichloroethane	107-06-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
62	Bis(2-methoxyethyl) ether	111-96-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
63	Arsenic acid	7778-39-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
64	Calcium arsenate	7778-44-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
65	Trilead diarsenate	3687-31-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
66	N,N-dimethylacetamide (DMAC)	127-19-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
68	Phenolphthalein	77-09-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
69	Lead azide Lead diazide	13424-46-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
70	Lead styphnate	15245-44-0	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
71	Lead dipicrate	6477-64-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
72	α,α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene.1.methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202.027.5) or Michler's base (EC No. 202.959.2)]	6786-83-0	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
73	N,N,N',N'.tetramethyl.4,4'.methylenedianiline (Michler's base)	101-61-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
74	1,3,5.tris[(2S and 2R).2,3.epoxypropyl].1,3,5.triazine.2,4,6.(1H,3H,5H).trione (β .TGIC)	59653-74-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
75	Diboron trioxide	1303-86-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
76	1,2.bis(2.methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added

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#	Substance Name	CAS #	Concentration Threshold (PPM)	Material / Substance Concentration
77	4,4'.bis(dimethylamino).4''.(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202.027.5) or Michler's base (EC No. 202.959.2)]	561-41-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
78	Lead(II) bis(methanesulfonate)	17570-76-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
79	Formamide	75-12-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
80	[4.[4,4'.bis(dimethylamino)benzhydrylidene]cyclohexa.2,5.dien.1.ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202.027.5) or Michler's base (EC No. 202.959.2)]	548-62-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
81	1,2.dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
82	[4.[[4.anilino.1.naphthyl][4.(dimethylamino)phenyl]methylene]cyclohexa.2,5.dien.1.ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202.027.5) or Michler's base (EC No. 202.959.2)]	2580-56-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
83	1,3,5.Tris(oxiran.2.ylmethyl).1,3,5.triazinane.2,4,6.trione (TGIC)	2451-62-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
84	4,4'.bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
85	Pyrochlore, antimony lead yellow	8012-00-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
86	6-methoxy-m-toluidine (p-cresidine)	120-71-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
87	Henicosafleuroundecanoic acid	2058-94-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
88	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
89	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer	85-42-7, 13149-00-3, 14166-21-3	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
90	Dibutyltin dichloride (DBTC)	683-18-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
91	Lead bis(tetrafluoroborate)	13814-96-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
92	Lead dinitrate	10099-74-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
93	Silicic acid, lead salt	11120-22-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
94	4-Aminoazobenzene	60-09-3	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added

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#	Substance Name	CAS #	Concentration Threshold (PPM)	Material / Substance Concentration
95	Lead titanium zirconium oxide	12626-81-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
96	Lead monoxide (lead oxide)	1317-36-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
97	o-Toluidine	95-53-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
98	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
99	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	68784-75-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
100	Trilead bis(carbonate)dihydroxide	1319-46-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
101	Furan	110-00-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
102	N,N-dimethylformamide	68-12-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
103	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
104	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
105	4,4'-methylenedi-o-toluidine	838-88-0	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
106	Diethyl sulphate	64-67-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
107	Dimethyl sulphate	77-78-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
108	Lead oxide sulfate	12036-76-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
109	Lead titanium trioxide	12060-00-3	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
110	Acetic acid, lead salt, basic	51404-69-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
111	[Phthalato(2-)]dioxotrilead	69011-06-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
112	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
113	N-methylacetamide	79-16-3	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
114	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
115	1,2-Diethoxyethane	629-14-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
116	Tetralead trioxide sulphate	12202-17-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added

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#	Substance Name	CAS #	Concentration Threshold (PPM)	Material / Substance Concentration
117	N-pentyl-isopentylphthalate	776297-69-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
118	Dioxobis(stearato)trilead	12578-12-0	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
119	Tetraethyllead	78-00-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
120	Pentalead tetraoxide sulphate	12065-90-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
121	Pentacosafuorotridecanoic acid	72629-94-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
122	Tricosafuorododecanoic acid	307-55-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
123	Heptacosafuorotetradecanoic acid	376-06-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
124	1-bromopropane (n-propyl bromide)	106-94-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
125	Methoxyacetic acid	625-45-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
126	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
127	Methyloxirane (Propylene oxide)	75-56-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
128	Trilead dioxide phosphonate	12141-20-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
129	o-aminoazotoluene	97-56-3	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
131	4,4'-oxydianiline and its salts	101-80-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
132	Orange lead (lead tetroxide)	1314-41-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
133	Biphenyl-4-ylamine	92-67-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
134	Diisopentylphthalate	605-50-5	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
135	Fatty acids, C16-18, lead salts	91031-62-8	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
136	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
137	Sulfurous acid, lead salt, dibasic	62229-08-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
138	Lead cyanamidate	20837-86-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
139	Cadmium	7440-43-9	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
140	Cadmium Oxide	1306-19-0	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
143	Dipentyl phthalate (DPP)	131-18-0	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added

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#	Substance Name	CAS #	Concentration Threshold (PPM)	Material / Substance Concentration
144	4-Nonylphenol, branched and linear, ethoxylated <i>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]</i>	-	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
145	Cadmium sulphide	1306-23-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
146	Disodium 4-amino-3-[[4'-((2,4-diaminophenyl)azo)[1,1'-biphenyl]-4-yl]azo] - 5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
147	Dihexyl phthalate	84-75-3	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
148	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
149	Trixylyl phosphate	25155-23-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
150	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
151	Lead di(acetate)	301-04-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
153	Sodium perborate; perboric acid, sodium salt	-	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
154	Sodium peroxometaborate	7632-04-4	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
155	Cadmium chloride	10108-64-2	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
159	Cadmium fluoride	7790-79-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
160	Cadmium sulphate	10124-36-4; 31119-53-6	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	1000ppm or Intentionally added	Less than Threshold Level and Not Intentionally Added

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Other Regulated Substances of Concern

Material/Substance	Threshold Level	Material/Substance Concentration
Asbestos	Intentionally added	Not Intentionally Added
Azo colorants	Intentionally added	Not Intentionally Added
Brominated Flame Retardants (other than PBB or PBDE's)	1000ppm	Less than threshold level
DecaBDE, Decabromodiphenylether, 1163-19-5	1000ppm or Intentionally added	Not Intentionally Added
Halogen - Bromine (Br), CAS No. 007726-95-6	1000ppm	Less than Threshold Level
Halogen - Chlorine (Cl), CAS No. 007782-50-5	1000ppm	Less than Threshold Level
Halogens Total (Br & Cl)	1500ppm	Less than Threshold Level
Ozone Depleting Substances (CFCs, HCFCs, HBFCs, carbon tetrachloride etc.)	Class I : Intentionally added Class II : HCFCs : 1000ppm	Less than Threshold Level and Not Intentionally Added
Phthalates	1000ppm	Less than Threshold Level
Polychlorinated Biphenyls (PCBs)	Intentionally added	Not Intentionally Added
Polychlorinated Naphthalenes (more than three chlorine atoms)	Intentionally added	Not Intentionally Added
PFOS & PFOA (perfluorooctane sulfonate & perfluorooctanoic acid)	1000ppm or Intentionally added	Not Intentionally Added
Radioactive Substances	Intentionally added	Not Intentionally Added
Shortchain Chlorinated Paraffins	Intentionally added	Not Intentionally Added
Tributyl Tin (TBT) and Triphenyl Tin (TPT)	Intentionally added	Not Intentionally Added
Tributyl Tin Oxide (TBTO)	Intentionally added	Not Intentionally Added
Vinyl Chloride Polymer (PVC)	1000ppm	Less than Threshold Level
Antimony/Antimony Compounds	1000ppm	Less than Threshold Level
Arsenic/Arsenic Compounds	1000ppm	Less than Threshold Level
Beryllium/Beryllium Compounds	1000ppm	Less than Threshold Level
Bismuth/Bismuth Compounds	1000ppm	Less than Threshold Level
Copper/Copper Compounds	1000ppm	7,000ppm nominal
Gold/Gold Compounds	1000ppm	Less than threshold level
Magnesium	1000ppm	Less than Threshold Level
Nickel/Nickel Compounds	1000ppm	Less than threshold level
Palladium/Palladium Compounds	1000ppm	Less than Threshold Level
Selenium/Selenium Compounds	1000ppm	Less than Threshold Level
Silver/Silver Compounds	1000ppm	Less than Threshold Level

Source data used for Declaration:

Third-party Analysis

√ Subject Matter Expert Assessment

GLB-RoHS-SM-050

Revision 3: Date: February 9, 2015

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和興製品廠

WO HING MANUFACTURING COMPANY

RM. 325 - 329, KWAI ON IND. BLDG., TAI LIN PAI ROAD, KWAI CHUNG, N. T.

TEL: 2425 2155 FAX: 2489 0871 Web site: <http://www.wo-hing.com.hk> E-mail address: info@wo-hing.com.hk

STAINLESS STEEL HEXAGON HEAD BOLT, NUT AND WASHERS.

PRODUCT INFORMATION

HEXAGON HEAD BOLTS

Material: A2-70 (SS304)
A4-70 (SS316)
A4-80 (SS316)

Technical Standard: DIN931 / DIN933

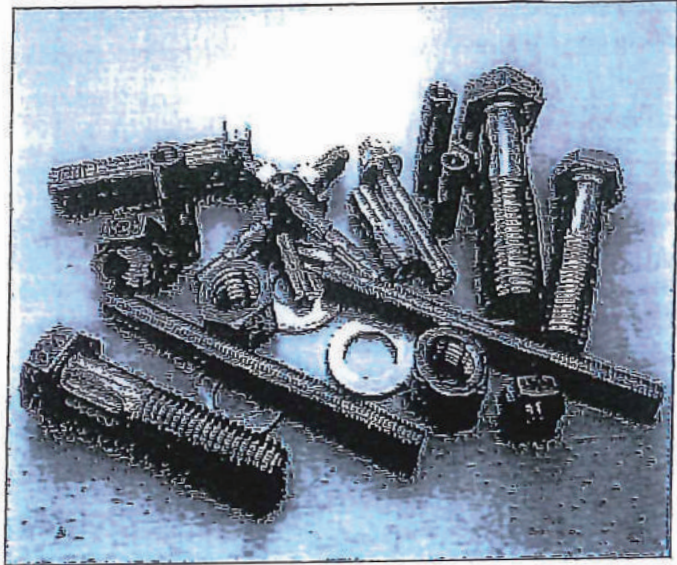
HEXAGON NUTS

Material: A2-70
A4-80

Technical Standard: DIN934

WASHERS

Technical Standard: DIN125



MECHANICAL PROPERTIES OF BOLTS AND NUTS

Mechanical Properties	
Tensile Strength Rm (min)	kgf/mm ²
	N/mm ²
Core Hardness	HRB
	HRC

Bolts		
SS304	SS316	SS316
A2-70	A4-70	A4-80
50	70	80
500	700	800
80-100	80-100	80-100

Nuts	
SS304	SS316
A2-70	A4-80
50	80
500	800
95-107	
	16-38

METRIC SIZES

Dia./Length	12	16	20	25	30	40	45	50	65	70	75	90	100	120	130	150
M6	○	○	○	○	○	○	○	○	○	○	○	○	○	△	△	△
M8	○	○	○	○	○	○	○	○	○	○	○	○	○	△	△	△
M10		○	○	○	○	○	○	○	○	○	○	○	○	△	△	△
M12			○	○	○	○	○	○	○	○	○	○	○	△	△	△
M16					○	○	○	☆	☆	☆	☆	☆	☆	△	△	△
M20						○	○	○	☆	☆	☆	☆	☆	△	△	△
M24								○	○	○	○	○	○	△	△	△

IMPERIAL SIZES

Dia./Length	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/2"	2-3/4"	3"	3-1/2"	4"	4-1/2"	5"	6"
3/16"																
1/4"	○	○	○	○	○	○	○	○	○		○	○	○	△	△	△
5/16"	○	○	○	○	○	○	○	○	○		○	○	○	△	△	△
3/8"	○	○	○	○	○	○	○	○	○		○	○	○	△	△	△
1/2"			○	○	○	○	○	○	○		○	○	○	△	△	△
5/8"				○	○	○	○	☆	☆	△	☆	☆	☆	△	△	△
3/4"					○	○	○	○	☆	△	☆	☆	☆	△	△	△
1"								○	○		○	○	○	△	△	△

- Full thread only
- ☆ Partial thread / full thread
- △ Partial thread only

Remark: 10% of tolerance should be accept.

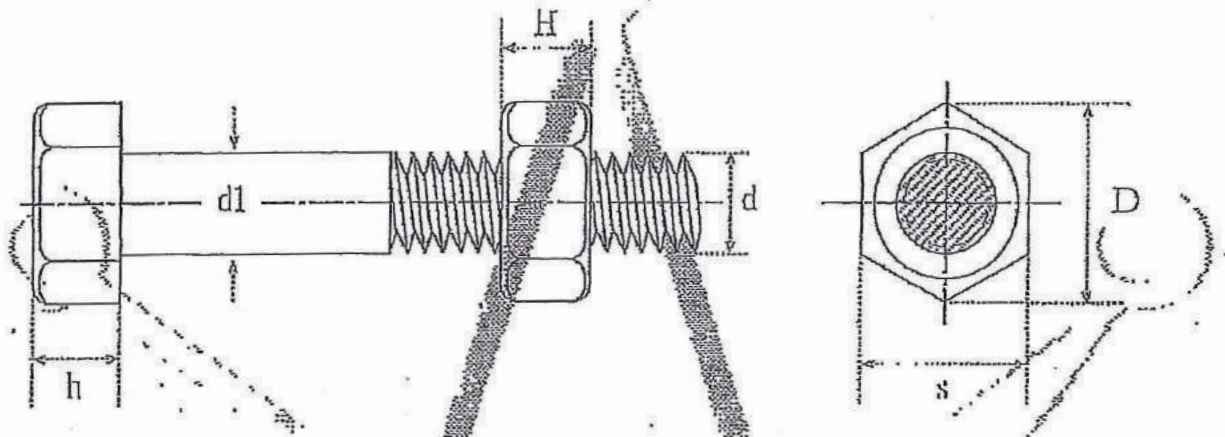


和興製品廠

WO HING MANUFACTURING CO.

六角頭螺絲

Hexagonal Bolts & Nuts



Diameter (inch)	Threads per inch	(mm)	dl (mm)	(mm)	H (mm)	D (mm)
1/4"	20	4.69	6.35	11.31	5.08	12.95
5/16"	18	6.46	7.96	13.34	6.35	15.49
3/8"	16	6.61	10.29	15.24	7.92	17.53
7/16"	14	7.67	11.89	18.03	9.53	20.83
1/2"	12	8.84	13.47	20.83	11.48	24.13
9/16"	12	9.91	15.04	23.37	13.46	26.92
5/8"	11	10.98	16.89	25.65	14.78	29.72
3/4"	10	13.02	20.07	30.48	17.96	35.31
7/8"	9	15.32	23.24	33.02	19.81	38.10
1"	8	17.12	26.17	37.59	23.01	43.43
1-1/8"	7	19.55	29.28	43.42	26.16	49.02
1-1/4"	7	21.84	33.02	47.24	29.59	54.61

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Web Site: <http://www.wo-hing.com.hk>

E-mail add: info@wo-hing.com.hk

To whom it may concern;

Job-reference of Stainless Steel Bolt & Nuts with Washer.

Item	Name of Constructors / Customer	Location	Housing	New Works	Replumbing
1	Techoy Construction Company Limited	Fu Heng Estate.	*		*
2	Techoy Construction Company Limited	Fu Heng Estate.	*		*
3	Hip Hing Construction Co. Ltd.	Tai Greig Road, Orchards Garden.		*	
4	Fu Lam Construction Co. Ltd.	Chai Wan, King Tsui Court.			*
5	Kwong Tai Construction Co. Ltd.	Kowloon, So Uk Estate.	*		*
6	Shui On Construction Co. Ltd.	Wong Tai Sin, Fung Tak Estate.	*		*
7	Sun Po Engineering Company	Tuen Mun, Shan King Estate.	*		*
8	Chun Keung Engineering Co.	Four Seasons Place, Central.		*	
9	Fu Lam Construction Co. Ltd.	Tai On House, No. 57 - 87, Shau Kei Wan Road.			*
10	Paul Y.-ITC Construction Ltd.	Tung Chung Station Development Package 3, Ph 4 & 5.		*	
11	Snk Fat Kee Eng. Co.	City Garden, North Point.			*
12	Sanfield Construction Company Limited	Noble Hill, Sheung Shui.		*	
13	K - Peak Co., Ltd.	Shek Wai Kok Estate.	*		*
14	K - Peak Co., Ltd.	Kwai Fong Estate, Kwai Kin House.	*		*
15	Sun Po Engineering Company	Tak Tin Estate.	*		*
16	K - Peak Co., Ltd.	Wan Tau Hom Estate.	*		*
17	Keung Kee Construction Limited	Wan Tsui Estate.	*		*
18	Yuen Hing Engineering Company Limited	Kowloon Bay, Tak Bo Garden.			*
19	Kwong Tai Construction Co. Ltd.	Kwai Shing East Estate.	*		*
20	Hop Hing Construction Company Limited	Shek Lei (1) Estate.	*		*
21	Kwong Tai Construction Co. Ltd.	Shek Lei (2) Estate.	*		*
22	Build Jet Engineering Limited	On Yam Estate.	*		*
23	Sun Po Engineering Company	Sheung Shui, On Shing Court.	*		*

To whom it may concern;

Job-reference of Galvanized Bolt & Nuts with Washer.

Item	Name of Constructors	Location	Remark
1	Yau Lee Construction Co. Ltd.	Tong Ming Court, Tseung Kwan O.	*
2	Yau Lee Construction Co. Ltd.	Phase 1, Cheung Sha Wan West.	*
3	Yau Lee Construction Co. Ltd.	Phase 1, Cheung Sha Wan West.	*
4	Paul Y.-ITC Construction Ltd.	HEC Head-office, 44 Kennedy Road.	*
5	Hip Hing Construction Co. Ltd.	Redevelopment of Sau Man Ping, Phase 5.	*
6	Hip Hing Construction Co. Ltd.	Phase 1, Area 30, Tung Chung.	*
7	Hip Hing Construction Co. Ltd.	Phase 2, Lai Chi Kok.	*
8	Hip Hing Construction Co. Ltd.	Phase 5, Area 90, Ma On Shan.	*
9	Hip Hing Construction Co. Ltd.	Phase 3, Cheung Sha Wan West.	*
10	Shun Shing Construction Co. Ltd.	Shun Wan Road.	*
11	Chevalier Construction Co. Ltd.	Phase 1, Area 105, Tin Shui Wai.	*
12	Yau Lee Construction Co. Ltd.	Phase 4, Po Lam Road.	*
13	Sun Hop Shing Construction Co. Ltd.	Choi Ha Estate.	*
14	Hong Kong Construction Ltd.	No. 9, Wo Mun Street, Fan Ling.	
15	Yau Lee Construction Co. Ltd.	Phase 2, 73A, Tseung Kwan O.	*
16	Paul Y.-ITC Construction Ltd.	Phase 3, 73A, Tseung Kwan O.	*
17	Hip Hing Construction Co. Ltd.	Phase 1, Area 30, Tung Chung.	*
18	Yau Lee Construction Co. Ltd.	Ruttonjee Hospital.	
19	Yau Lee Construction Co. Ltd.	Phase 3, Area 31, Tong Chung.	*
20	Hip Hing Construction Co. Ltd.	Phase 2, Kowloon Station.	*
21	Hip Hing Construction Co. Ltd.	Lei Muk Shue Estate, Phase 3.	*
22	Hip Hing Construction Co. Ltd.	Kwai Chung Estate, Phase 5.	*
23	Paul Y.-ITC Construction Ltd.	Tseung Kwan O, Area 73A, Phase 3.	*
24	Paul Y.-ITC Construction Ltd.	Cyberport.	

Thank you for your kindly attention.



和 興 製 品 廠
WO HING MANUFACTURING CO.

PVC膠管專用接駁膠水
Solvent cement for
PVC pipes and fittings





TEST REPORT

TITLE : Testing of Solvent Cement

OUR REFERENCE : J8183

DESCRIPTION OF SAMPLE : Solvent cement for PVC pipes and fittings

SAMPLE SUBMITTED BY : Wo Hing Manufacturing Co.
Rm.240-241, Kwai On Ind. Bldg.,
Tai Lin Pai Road, Kwai Chung, N.T.

MANUFACTURER : Wo Hing Manufacturing Co.

BODY MARKINGS :



)|(A

塩化ビニル管、継手用
ユニバーサル 接着剤
低粘度速乾性
業務用
ユニバーサル化研株式会社

換気注意

火気厳禁

BRAND : ANCHOR 環字牌

METHOD OF TEST : BS4346 : Part 3 : 1982

PERIOD OF TESTS : 2nd to 26th April 2002

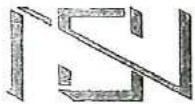
RESULTS: -

1. SHEAR STRENGTH

	Shear strength (MPa)		Remark
	Sample	BS Requirement	
A) 1 hour	1.2	0.6 minimum	Pass
B) 24 hour	4.5	2.0 minimum	Pass
C) 366 hour	9.8	5.0 minimum	Pass

2. FILM PROPERTIES

- (A) The film produced was even, continuous and free from lumps and foreign matter.
- (B) The film produced was flexible and could be wrapped around a 25mm diameter mandrel without crack or split.
- (C) The film showed no flow or drip after it had been held in a vertical position for 5 minutes.



NUTEK SYSTEMS, LTD.

Unit B, 13/F., Universal Ind. Ctr.,
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Fo Tan, Shatin, N.T., Hong Kong.

Tel: (852) 2605 5736 Fax: (852) 2692 0798

TEST REPORT

OUR REFERENCE NO. J8183 (P.2)

3. LONG-TERM HYDROSTATIC PRESSURE TEST


		Temperature (°C)	Hydraulic pressure (bar)	Duration (hour)	Remark
1 st test	Sample	20	47	25	Pass
	BS Requirement	20 ± 2	47	25	Pass
2 nd test	Sample	60	18	25	Pass
	BS Requirement	60 ± 2	18	25	Pass

Note : no leakage was detected during the above tests.

4. SUMMARY OF RESULTS (apply only to the sample tested)

- Shear strength - Satisfactory
- Film properties - Satisfactory
- Long-term hydrostatic pressure test - Satisfactory

**CERTIFIED
TRUE COPY**

Date : 29th April 2002 Authorized signature : 

Nutek Systems is a testing agency,
approved by the Water Authority and
Government Supplies Department, for
testing water supply fittings.

Samson W.K. Yiu
(Director)





和興製品廠

WO HING MANUFACTURING COMPANY

RM. 240 - 241, KWAI ON IND. BLDG., TAI LIN PAI ROAD, KWAI CHUNG, N. T.

TEL: 2425 2155 FAX: 2489 0871

Web site: <http://www.wo-hing.com.hk>

E - mail address: info@wo-hing.com.hk

Job-reference of "Anchor" Solvent Cement for PVC pipe and fittings.

Item	Name of Constructors / Customer	Location	Housing	New Works	Replumbing
1	Yau Lee Construction Company Limited	Phase 3 and 4, Yiu Tung Estate.	*	*	
2	Yau Lee Construction Company Limited	Tse On Estate, Tse Wan Shan.	*	*	
3	Yau Lee Construction Company Limited	Choi Wan Estate.	*	*	
4	Cheavalier Construction Company Limited	Phase 1, Kowloon West.		*	
5	China State Construction Engineering Corporation	Fung Lei Road, Fung Wong Estate.	*	*	
6	China State Construction Engineering Corporation	Phase 4, Kwai Shing Estate.(East)	*	*	
7	Hsin Chong Construction Company Limited	Area 395, Tuen Mun.	*	*	
8	Paul Y.-ITC (E & M) Contractors Limited	Phase 2, Area 30, Tin Shui Wai.	*	*	
9	Yau Lee Construction Company Limited	Ap Lei Chau Estate.	*	*	
10	Yau Lee Construction Company Limited	Tong Ming Court, Tseung Kwan O.	*	*	
11	Yau Lee Construction Company Limited	Phase 1, Ho Man Tin.(South)	*	*	
12	Nishimatsu Sintec Construction Limited	Phase 3, Area 3, Tin Shui Wai.	*	*	
13	Yau Lee Construction Company Limited	Phase 1, 49A, Fanling.	*	*	
14	Yau Lee Construction Company Limited	Phase 2, Ma Heng Estate.	*	*	
15	China Civil Engineering Construction Limited	Pak Tin Estate.	*	*	
16	Yiu Wing Construction Company Limited	Area 102, Tin Shui Wai.	*	*	
17	Penta-Ocean Construction Company Limited	Phase 5, Kwai Shing Estate.	*	*	
18	Paul Y.-ITC (E & M) Contractors Limited	HEC Head Office, 44 Kennedy Road.			*
19	China State Construction Engineering Corporation	Lei King Hospital.			
20	Gammon Construction Company Limited	Phase 2, Po Lam Road.	*	*	
21	Yau Lee Construction Company Limited	Phase 1, Ho Man Tin.(South)	*	*	
22	Paul Y.-ITC (E & M) Contractors Limited	Phase 1, Yau Tong.	*	*	
23	Leighton Construction (Asia) Limited	Phase 4, Area 110, Tin Shui Wai.	*	*	
24	Hsin Chong Construction Company Limited	Phase 8, Sau Mau Ping.	*	*	
25	Cheung Kee Construction Company Limited	Phase 3, Area 30, Tung Chung.	*	*	
26	Yau Lee Construction Company Limited	Phase 1, and 2, Cheung Sha Wan.(West)	*	*	

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Job-reference of "Anchor" Solvent Cement for PVC pipe and fittings.

Item	Constructors / Customer	Location	Housing	New Works	Replumbing
27	Ngo kee Construction Limited	Hunghom Bay.	*	*	
28	Ngo kee Construction Limited	Phase 2, Yau Tong.	*	*	
29	China State Construction Engineering Corporation	Phase 1, Tai Hang Tung.	*	*	
30	Charterwealth Building Professional Limited	Po Yip Ind. Bldg., Kwai Chung.			*
31	Dai-Chung Shum Chartered Architect	Kiu Ming Mansion, Mongkok.			*
32	Vincent Ip Consultants	Fok Lin Bldg., Hunghom.			*
33	Yuen Hing Engineering Company	Kwai Sing Centre, Kwai Chung.			*
34	Li & Partners Architects Development Consultants Limited	Wang Fai Ind. Bldg., San Po Kong.			*
35	Easy Full Construction Company	Wa Fung Ind. Bldg., Kwai Chung.			*
36	Wai Kee Construction Company	Baptist University, Waterloo Road.			*
37	Paul Y.-ITC (E & M) Contractors Limited	Phase 3, 73A, Tseung Kwan O.	*	*	
38	Housing Authority (Air Condition)	Wah Sam Estate, N. T.	*		
39	Housing Authority (Air Condition)	Hing Man Estate, Hong Kong.	*		
40	Housing Authority (Air Condition)	Wan Choi Estate, Hong Kong.	*		
41	Housing Authority (Air Condition)	Kwai Fong Estate.	*		
42	Housing Authority (Air Condition)	On Yam Estate.	*		
43	Housing Authority (Air Condition)	Kai Yip Estate.	*		
44	Housing Authority (Air Condition)	Shek Wai Kok Estate.	*		
45	Housing Authority (Air Condition)	Fuk Loi Estate.	*		

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E - mail address: info@wo-hing.com.hk

RUBBER (EPDM) GASKET

PRODUCT INFORMATION;

BRAND NAME: ANCHOR

MATERIAL: EPDM

STANDARD: BSEN681-1:1996

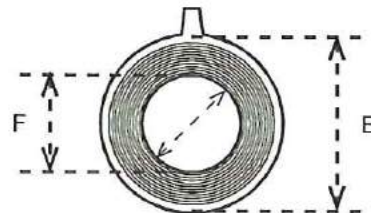
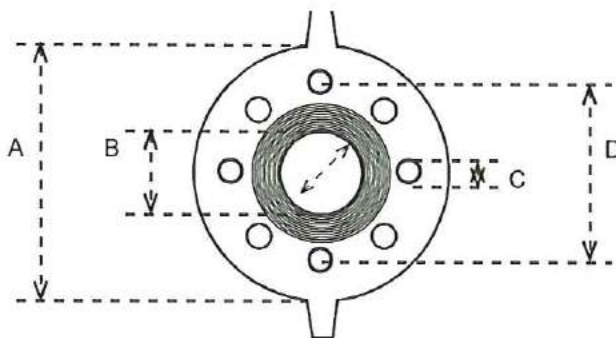
(This standard supersedes requirements for vulcanized rubber seals type W, D, H and S, use in water and drainage applications as given in BS2494)

APPLICATION: For flange joints of water pipe and fittings.

* WA - for cold potable water supply.

* WC - for non-potable water supply, drainage, sewerage and rainwater pipes.

* WG - for cold non-potable water supply, drainage, sewerage and rainwater pipes with oil resistance.



DIMENSIONS;

Normal Size (DN)	Full Face Gasket (PN16)					IBC Gasket (PN16)		Wall Thickness
	A Outside Diameter	B Inside Diameter	C Hole for Screw	D Hole for Screw	D Distance for Hole to Hole	E Outside Diameter	F Inside Diameter	
mm inch	mm	mm	mm	Nos.	mm	mm	mm	mm
50 2"	165	56	19	4	125	104	56	4
65 2-1/2"	185	70	19	8	145	127	71	5
80 3"	200	75	19	8	160	143	75	5.5
100 4"	220	90	19	8	180	161	85	5.5
150 6"	285	145	23	8	240	214	134	5.5
200 8"	340	195	23	12	295	287	195	6
250 10"	400	260	28	12	355	325	235	7
300 12"	455	293	28	12	410	384	290	7


Remark: 10% of tolerance should be accept.



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TEST REPORT

TITLE : Testing of Rubber Gasket
OUR REFERENCE : J5591A-3
DESCRIPTION OF SAMPLE : Rubber (EPDM) gaskets
AGENT : Wo Hing Manufacturing Co.
Rm.240-241, Kwai On Ind. Bldg.,
Tai Lin Pai Road, Kwai Chung, N.T.
MANUFACTURER : The Universal Hardware & Plastic Factory Ltd.
BRAND : Anchor
BODY MARKINGS : 
METHOD OF TEST : BSEN681-1: 1996 (This standard supersedes requirements for vulcanized rubber seals types W, D, H and S, used in water and drainage applications as given in BS2494)
PERIOD OF TESTS : 25th August to 29th September 1999

RESULTS: -

Tests	Results		
	Sample	BS Requirement	
Hardness (IRHD)	52.5	50 ± 5	
Tensile strength (MPa)	13.6	9 min.	
Elongation at break (%)	505	375 min.	
Compression set	72 h at 23°C (%)	9.5	12 max.
	24h at 70°C (%)	12.2	20 max.
	72 h at -10°C (%)	18.7	40 max.
Ageing, 7 days at 70 °C	hardness change (IRHD)	+4	+8/-5 max.
	tensile strength change (%)	-16.5	-20 max.
	elongation change (%)	-21	+10/-30 max.
Volume change in water, 7 days at 70 °C (%)	+2.5	+8/-1	

Remark : Pass; the above test results comply with BSEN681-1's requirement for type WA, WC and WG rubber.
(WA - for cold potable water supply,
WC - for non-potable water supply, drainage, sewerage and rainwater pipes,
WG - for cold non-potable water supply, drainage, sewerage and rainwater pipes with oil resistance)

Date : 2nd September 2002 Authorized signature : 

Nutek Systems is a testing agency,
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Government Supplies Department, for
testing water supply fittings.

Samson W.K. Yiu

(Director)



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Job-reference of "Anchor" Brand gasket. (BSEN681 - 1: 1996)

Item	Name of Constructors	Location	Housing	New Works	Replumbing
1	Hip Hing Construction Co. Ltd.	Phase 1, Area 30, Tung Chung.	*	*	
2	Hip Hing Construction Co. Ltd.	Phase 2, Lai Chi Kok.	*	*	
3	Hip Hing Construction Co. Ltd.	Phase 5, Area 90, Ma On Shan.	*	*	
4	Hip Hing Construction Co. Ltd.	Phase 3, Cheung Sha Wan West.	*	*	
5	Hong Kong Construction Ltd.	Redevelopment of Hok Un Street, Phase 3.		*	
6	Hoo Cheung Construction Ltd.	YLTL 451, Town Park/Ma Tin Road, Yuen Long.		*	
7	Yau Lee Construction Co. Ltd.	Phase 1, Cheung Sha Wan West.	*	*	
8	Hip Hing Construction Co. Ltd.	Phase 3, Cheung Sha Wan West.	*	*	
9	Yau Lee Construction Co. Ltd.	Kowloon Hospital.		*	
10	Shun Shing Construction Co. Ltd.	Shum Wan Road.	*	*	
11	Yau Lee Construction Co. Ltd.	Phase 2, Ma Heng Estate.	*	*	
12	Nishimatsu Construction Co. Ltd.	Contract 680, North Point Section Modification & Tunnels.		*	
13	Kwong Tai Construction Co. Ltd.	Kwai Shing Estate.	*		*
14	Kwong Tai Construction Co. Ltd.	Lee Cheng Uk Estate.	*		*
15	Sun Hop Shing Construction Co. Ltd.	Choi Ha Estate.	*		*
16	Kwong Tai Construction Co. Ltd.	Tung Tau Estate.	*		*
17	Sanfield Construction Co. Ltd.	Kowloon Station, Phase 3.		*	
18	Hip Hing Construction Co. Ltd.	Lei Muk Shue Estate, Phase 3.	*	*	
19	Hip Hing Construction Co. Ltd.	Kwai Chung Estate, Phase 5.	*	*	
20	K - Peak Co., Ltd.	Shek Wai Kok Estate.	*		*
21	K - Peak Co., Ltd.	Kwai Fong Estate, Kwai Kin House.	*		*
22	Dawn Enterprise Ltd.	Tin Yiu (1 & 2) Estate.	*		*
23	Sanfield Construction Co. Ltd.	Kowloon Station, Phase 6.		*	
24	K - Peak Co., Ltd.	Wan Tau Hom Estate.	*		*
25	K - Peak Co., Ltd.	Choi Fai Estate.	*		*
26	Hsin Chong Aster Eng. Co. Ltd.	Retail Centre of Union Square, Kowloon Station.		*	



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Job-reference of "Anchor" Brand gasket. (BSEN681 - 1: 1996)

Item	Name of Constructors	Location	Housing	New Works	Replumbing
27	K - Peak Co., Ltd.	Yau Oi Estate.	*		*
28	Build Jet Engineering Limited	On Yam Estate.	*		*
29	Yick Hing Construction Co. Ltd.	Tai Wo Estate.	*		*
30	Kwong Tai Construction Co. Ltd.	Kwai Shing East Estate.	*		*
31	Sun Po Engineering Company	Sheung Shui, On Shing Court.	*		*
32	Woon Lee Construction Co. Ltd.	Tseung Kwan O, Tsui Lam Estate.	*		*
33	Wah San Construction Company Limited	Tze Ching Estate, Kowloon.	*		*
34	Wah San Construction Company Limited	Lok Fu Estate, Kowloon.	*		*
35	Tapbo Construction Company Limited	Ravana Garden, Shatin.			*