

X2309-21



**GLORIA MATERIAL TECHNOLOGY CORP.**

**INSPECTION CERTIFICATE**

1FL. NO 35, HSIN CHENG RD., HSIN YI, TAINAN, TAIWAN, ROC

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Messrs: VALBRONA STAINLESS INC.

Order No: 2008001932

Grade: A1S1 316/316L

P.O. NO.: 22649

FILE NO: 2008007438-A

Size: 16"

Date: 11/25/2008

HEAT-Lot No: X2309-21

Weight: 3744.0KG 8254.10LB

Pcs: 1

Condition: BP-Solution Annealed-Turned

**Chemical Composition (wt%)**

	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N
Min.						10.00	16.50	2.0		
Max.	0.030	1.00	2.00	0.040	0.030	14.00	18.00	3.0	1.00	0.10
Result	0.023	0.34	1.49	0.033	0.021	10.51	16.81	2.1	0.31	0.05

**Mechanical Properties Spec.**

	Hardness (1/2R)	Grain Size
Spec. Min.		
Spec. Max.	223HBW	
Result	139HRF	3

**Tensile Test**

Unit	Elongation (A)		Tensile Strength (Rm)		Yield Strength (Rp)		Reduction of Area (Z)	
	1/2R L	%	1/2R L	ksi	1/2R L	ksi	1/2R L	%
Min.		30		75		35		40
Max.								
Result	72		78		35		82	

**Specification:**

1. ASTM A484-08b, A182-08a, A276-08, A314-97(2002), A473-01, A479-06a.
2. ASTM A194-07b, A320/A320M-07a Class B8M, A193-08a Class B8M.
3. ASTM A370-08a.
4. ASME SA484 E04, SA193 E04 B8M CL1, SA320 E04 B8M CL1, SA182 E04, SA479-E04
5. MIL-S-8628, MIL-S-7720C.
6. NACE MR0175/ISO 15156-3(2003).
7. AMS 5648K, 5653P.
8. AMS QQS 763B condition A.
9. EN 10204 3.1.
10. DIN 50049-1992.
11. UNS S31600, S31603.
12. PMI SPEC DATE 01.15.2003.



Mars Wang  
 QA SECTION  
*Mars Wang*

Our quality and environmental management systems have been certified by ABS100, ISO9001:2000 and 14001 EMS. We hereby certify that the material described herein has been manufactured and traced with satisfactory results in accordance with the requirement of the above material specification. We hereby the Inspection Certificate comply with an ISO9001:2000.