



**Industrias Maass  
de Mexico S.A. de C.V.**

Carretera Presa La Amistad KM7  
Parque Industrial Amistada  
Ciudad Acuna, Coahuila 26230, Mexico



ISO 9001:2008  
Certified

**Material Test Certification**

Certificate Conforms to EN 10204/3.1

Sold to: WILHELM MAASS INTERNATIONAL,S.DE R.L. DE C.V.  
R.F.C. WMI - 040315 - HP8  
CARR.PRESA LA AMISTAD KM 7 INT. A  
COL. PARQUE INDUSTRIAL AMISTAD  
CD. ACUNA, COAHUILA, C.P. 26220

Cust. P.O.#: 2847-12  
Order#: 6177

**4883**

**Item 1**

Qty	Part Number	Part Description	Heatcode	HeatNumber	Material									
100	6200100112	M-FIN F316-316L 1.00 150 RF SO	C1125	E112151	F316-316L									
C	Mn	P	S	Si	Ni	Cr	Mo	N	Cu	Ti	V	Co	Ta	W
0.021	1.560	0.030	0.0240	0.290	10.080	17.170	2.040	0.0790						
Cb	Cb+Ta	Al	Fe	Tensile	Yield	Elong.%	R of A %	BHN	Grain					
				83,700	44,600	54.40	71.20	152.00						

CVN @ -50F; 93, 122, 140 ft-lbs; L/E 59, 81, 83 mils; shear 100, 100, 1005  
Solution annealed at 1950F/1065C and water quenched.  
A/SA-182m-09a F316/316 L NACE MR-0175 2009/ISO 15156, MR-0103 2010; ASME B16.5-2009 as applicable.  
Material free from mercury contamination. No weld repair was performed.  
Made in Mexico.

**Item 2**

Qty	Part Number	Part Description	Heatcode	HeatNumber	Material									
67	6200300112	M-FIN F316-316L 3.00 150 RF SO	C1131	E101409	F316-316L									
C	Mn	P	S	Si	Ni	Cr	Mo	N	Cu	Ti	V	Co	Ta	W
0.023	1.700	0.034	0.0270	0.390	10.080	16.830	2.060	0.0820						
Cb	Cb+Ta	Al	Fe	Tensile	Yield	Elong.%	R of A %	BHN	Grain					
				83,800	45,800	51.50	65.30	156.00						

Solution annealed at 1950F/1065C and water quenched.  
A/SA-182m-09a F316/316 L NACE MR-0175 2009/ISO 15156, MR-0103 2010; ASME B16.5-2009 as applicable.  
Material free from mercury contamination. No weld repair was performed.  
Made in Mexico.

**Item 3**

Qty	Part Number	Part Description	Heatcode	HeatNumber	Material									
32	6200400112	M-FIN F316-316L 4.00 150 RF SO	C1125	E112151	F316-316L									
C	Mn	P	S	Si	Ni	Cr	Mo	N	Cu	Ti	V	Co	Ta	W
0.021	1.560	0.030	0.0240	0.290	10.080	17.170	2.040	0.0790						
Cb	Cb+Ta	Al	Fe	Tensile	Yield	Elong.%	R of A %	BHN	Grain					
				83,700	44,600	54.40	71.20	152.00						

CVN @ -50F; 93, 122, 140 ft-lbs; L/E 59, 81, 83 mils; shear 100, 100, 1005  
Solution annealed at 1950F/1065C and water quenched.  
A/SA-182m-09a F316/316 L NACE MR-0175 2009/ISO 15156, MR-0103 2010; ASME B16.5-2009 as applicable.  
Material free from mercury contamination. No weld repair was performed.  
Made in Mexico.

We certify that the material represented by this document has been tested and inspected and is in conformance with the purchase order, drawing(s) and specification requirements.

Approved by

Harold Acord  
Quality Assurance Inspector