

Certificate No. F161201014
Date: DEC.02.2016

檢驗證明書
MILL'S TEST CERTIFICATE
EN 10204/3.1

ORIGINAL

彰源企業股份有限公司
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Customer: SALCO IMPORTACIONES, SA DE CV Contract No. 3008/16 L/C No. TTT Specification: ASTM A312-14 / ASME SA312-13 Page: 4 of 5

Invoice No. 3008/16

Item No.	Description	Item No.	Size	Type	Heat No.	QTY (M)	Weight (Kg)	Heat Treatment	Surface Treatment	Hydrostatic Test (MPa)	Remark
29	STAINLESS STEEL WELDED PIPE	29	1/2" X SCH 40S	TP 316/TP 316L	AGS0702278	122.000	154.400	1060	PICKLED	18.00	
30	ASTM A312/14, ASME SA312/13, TP304/304L, 316/316L	30	3/4" X SCH 80S	TP 316/TP 316L	ADM070571	122.000	263.800	1065	PICKLED	18.00	
31	ANNEALED AND PICKLED	31	1" X SCH 40S	TP 316/TP 316L	AGK070026	61.000	152.400	1065	PICKLED	18.00	
32	CUT IN THE LENGTH OF	32	1" X SCH 80S	TP 316/TP 316L	ADV070232	122.000	387.800	1065	PICKLED	18.00	
33	6.1M, 6M AS INDICATED.	33	1-1/4" X SCH 40S	TP 316/TP 316L	AGJ070278	36.600	122.940	1065	PICKLED	18.00	
34		34	2" X SCH 80S	TP 316/TP 316L	AGJ070277	61.000	443.700	1070	PICKLED	18.00	
35		35	3" X SCH 10S	TP 316/TP 316L	AGS070105	133.000	1,128.900	1065	PICKLED	9.00	
36		36	3-1/2" X SCH 40S	TP 316/TP 316L	ADJ070696	30.500	405.450	1070	PICKLED	14.00	
37		37	4" X SCH 40S	TP 316/TP 316L	AGS070144	61.000	965.500	1070	PICKLED	13.00	
38		38	10" X SCH 40S	TP 316/TP 316L	AGE070469	12.200	729.220	1070	PICKLED	9.00	

Item No.	C	SI	Mn	P	S	Cr	Ni	Mo	N	其他	抗拉强度 Tensile [N/mm ²]	降伏强度 0.2% Yield [N/mm ²]	伸长率 Elongation	Direction	Width of specimen mm	Gauge length mm	硬度試驗 Hardness HRB	壓扁試驗 Flattening Test	彎曲試驗 Bend Test	缺口試驗 Fluor Test
Max.	0.035	1.000	2.00	0.045	0.030	18.00	10.00	2.00			515.00	205.00	35.00	L-T	mm	mm		No Crack	No Crack	No Crack
29	0.016	0.460	1.21	0.038	0.002	16.96	10.14	2.02			637.00	330.00	54.00	Longitudinal	Full size	50.00				GOOD
30	0.020	0.330	1.38	0.030	0.003	16.69	10.05	2.03			647.00	348.00	52.00	Longitudinal	Full size	50.00				GOOD
31	0.018	0.520	1.16	0.029	0.001	16.60	10.10	2.05			670.00	348.00	55.00	Longitudinal	Full size	50.00				GOOD
32	0.020	0.500	1.09	0.028	0.002	16.87	10.15	2.07			650.00	345.00	54.00	Longitudinal	Full size	50.00				GOOD
33	0.016	0.480	1.19	0.026	0.001	16.60	10.10	2.11			662.00	374.00	54.00	Longitudinal	19	50.00				GOOD
34	0.016	0.480	1.16	0.027	0.001	16.70	10.20	2.06			670.00	361.00	54.00	Longitudinal	25	50.00				GOOD
35	0.015	0.490	1.23	0.036	0.002	16.66	10.02	2.02			656.00	342.00	55.00	Longitudinal	25	50.00				GOOD
36	0.019	0.590	1.14	0.029	0.001	17.20	10.20	2.22			657.00	334.00	56.00	Longitudinal	25	50.00				GOOD
37	0.019	0.570	1.19	0.030	0.001	16.80	10.20	2.08			673.00	352.00	52.00	Longitudinal	25	50.00				GOOD
38	0.018	0.490	0.95	0.033	0.002	16.75	10.12	2.12			669.00	362.00	55.00	Transverse	38	50.00				GOOD

NOTES:
1 The material described herein is certified for no radiation contamination by original Material Manufacturer.

2 The reference of chemical composition is according to ASTM A486

3 Heat Treatment: Solution annealed and quenched in water.

4 HKS = 1000Psi, 1Mpa = 1N/mm² = 0.145038 Ksi.

5 Visual Inspection (Surface) and Dimension Check: Acceptable

6 We hereby certify that material described herein has been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification.

APPROVED CERTIFICATE:
1. OMS according ISO 9001:2015 (TUV Cert No:01 100 126922)
2. EMS according ISO 14001:2004 (TUV Cert No:0992007)
3. PED according 97/23/ECTUV Cert No: 01 202 R0C30 (080145)
4. Lab management system according ISO/IEC 17020:2017 (TAF Cert No:10001)
5. Lab management system according ISO/IEC 17025:2005 (TAF Cert No:2271)

QA Manager / Work Inspector
Lai Yu Lin