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FABRICANTE DE BRIDAS Y
CONEXIONES / MANUFACTURER
OF FLANGES & FITTINGS

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OCI WORLD WIDE

ORGANISMO DE CERTIFICACIÓN INTERNACIONAL

Empresa Certificada Según:

NMX-CC-9001-IMNC-2008 / ISO 9001 : 2008



REPORTE DE
PRUEBAS NUMERO:

TEST REPORT NUMBER:

CERTIFICADO SERIE / CERTIFICATE SERIES:

MTR-TCI-AV-3131

CERTIFICADO DE INSPECCION / INSPECTION CERTIFICATE / EN 10204: 2004 - 3.1.

NOMBRE DEL CLIENTE / CLIENT NAME:	ORDEN DE COMPRA / P.O.NUM.:	PED-ORP	REFERENCIA / REFERENCE	FECHA / DATE:	Codigo Formato:
PLESA ANAHUAC Y CIAS., S.A. DE C.V.	15617	ATD 0273		martes, 02 de julio de 2013	MHTCI-0713

TIPO DE MATERIAL / MATERIAL TYPE:	
CODIGOS y NORMAS APLICABLES / APLICABLE CODES & NORMS	
ASTM A 234/A234M-WPB-10, ASME A/SA234 - WPB/ NACE-MR-01-75-2009 / ISO 15156-2009	ANSI B16.25 / ASME B16.25-03 // ASME Boiler & Pressure Vessel Code SECC II, Part A 2010 Addenda 2011
PROCESOS / PROCESS	TRATAMIENTOS TERMICOS / HEAT TREATMENTS
HOT FORMED / FORMADO EN CALIENTE / 620°C - 980°C	NORMALIZED 940°C AND ALLOWED TO COOL IN STILL AIR / NORMALIZADO A 940°C Y ENFRIADO AL AIRE CALMADO

DESCRIPCION DEL ARTICULO / DESIGNATION OF ARTICLE:						
PH/ITEM	CANTIDAD / QTY		INFORMACION / INFORMATION	MATERIA PRIMA / BASE MATERIAL	COLADA / HEAT CODE	
1	7	4"	CAP BW SCH XS	ANSI/ASME B16.9-07 SEAMLESS	MILL HEAT SUPPLIER No. B06GRS	B06GRS
1	3	4"	CAP BW SCH XS	ANSI/ASME B16.9-07 SEAMLESS	MILL HEAT SUPPLIER No. A126492	A126492
2	10	10"	CAP BW SCH STD	ANSI/ASME B16.9-07 SEAMLESS	MILL HEAT SUPPLIER No. A06CG	A06CG
3	10	12"	CAP BW SCH STD	ANSI/ASME B16.9-07 SEAMLESS	MILL HEAT SUPPLIER No. E06WX2S	E06WX2S
4	5	14"	CAP BW SCH STD	ANSI/ASME B16.9-07 SEAMLESS	MILL HEAT SUPPLIER No. 28D	28D

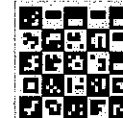
% COMPOSICION QUIMICA / % CHEMICAL COMPOSITION:																						
%	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	SN	AL	Nb	V	Ti	Co	As	Sb	H ppm	N	CEQ	Cr+Mo (1%)	
REQUERIDO/ Required MAX	≤ 0.3	0.28 - 1.06	≤ 0.10	≤ 0.050	≤ 0.058	≤ 0.40	≤ 0.40	≤ 0.15	≤ 0.40				≤ 0.08							≤ 0.500	≤ 0.320	≤ 1.060
PH/ITEM	COLADA / HEAT CODE																					
1	B06GRS	0.180	1.030	0.31	0.012	0.006	0.04	0.19	0.010	0.26		0.001	0.004							0.392	1.172	0.331
1	A126492	0.223	1.112	0.294	0.016	0.006	0.029	0.018	0.010	0.028		0.004	0.005							0.420	1.171	0.301
2	A06CG	0.160	1.090	0.35	0.01	0.003	0.03	0.18	0.002	0.24		0.001	0.001							0.376	1.232	0.368
3	E06WX2S	0.170	1.080	0.358	0.008	0.007	0.02	0.19	0.003	0.255		0.000	0.001							0.384	1.229	0.377
4	28D	0.170	0.490	0.19	0.012	0.007	0.02	0.01	0.000	0.01		0.000	0.003							0.258	0.526	0.193

PRUEBAS DE TENSION / TENSILE TEST										PRUEBAS DE IMPACTO / IMPACT TEST					
No. PRUEBA / TEST No.	Dimension del Especimen / Specimen dimension	Dirección	Temperatura	RESISTENCIA Tensile / Strength (Mpa) / Kcal UTS-Rm	LIMITE ELASTICO / Yield Point (Mpa) / Ksi YS - Rp0.2% (Min)	Elong-A (Min)	Red. of Area	No. PRUEBA / Test No.	Temperatura	Dirección	Resiliencia KV Energy J	Promedio / Average	Expansión Lateral / Lateral expansion	Fractura / Fracture	DUREZA / Hardness HB
				415-655 Mpa / (60-95 Ksi)	240 Mpa / (35 Ksi)	22%									197 MAX
1	B06GRS	LONG.		531	350	33									151
1	A126492	LONG.		550	377	23									131
2	A06CG	LONG.		527	367	48									130
3	E06WX2S	LONG.		489	317	35									143
4	28D	LONG.		450	315	30.5									150

NOTA / NOTE: 1) Cr+Ni+Mo+Cu+V / NO WELDING HAS BEEN PERFORMED // THIS PRODUCT IS FREE FROM MERCURY AND RADIOACTIVE FOR EACH REDUCTION OF 0.01 % BELOW THE SPECIFIED CARBON MAXIMUM (0.35 %), AND INCREASE OF 0.06 % MANGANESE ABOVE THE SPECIFIED MAXIMUM (1.05 %) WILL BE PERMITTED UP TO A MAXIMUM OF 1.35 %

MARCADO / MARKING: **VX** VX FLANGES & FITTINGS® QA TCI / Inspectores autorizados / Authorized Works Inspector: Ing. Jorge Ortiz / Ing. Andres Lira / Ing. Rafael Egua Digitalizado / Digitized: JOE-03131

Certificamos que todos los resultados de pruebas e información de proceso y procedimientos asentados en el presente, son correctos y verdaderos, concordando con los Registros de soporte técnico, Aseguramiento de calidad y Sistema de Gestión de la Calidad. / We hereby certify that all test results and process information contained here in, are true and correct in accordance with in all the records of technical support, QA management and the company quality management system. (EMPRESA CERTIFICADA SEGUN LA NORMA NMX-CC-9001-IMNC-2008/ ISO 9001:2008 para las actividades siguientes: FABRICANTE DE BRIDAS Y CONEXIONES / certified company for the following activities: MANUFACTURING PROCESS OF FLANGES AND FITTINGS.)



CODIGO DE SEGURIDAD
A-131 B-632571
A247B34D135EBF340

CERTIFICADO APROBADO POR:
APPROVED CERTIFICATE BY:
QUALITY ASSURANCE