

PETROFLANGE^{MR}

DISTRIBUIDOR

FERRETERIA Y REP. INT., S.A. DE C.V.

Vendido a:

PLESA ANAHUAC Y CIAS, S.A. DE C.V.

Pedido:

OC-28005

Folio:

13 042

Cert. No.

PF-WN-128042-12518

Date.

15/02/2019

INSPECTION CERTIFICATE

ITEM	PCS	DESCRIPTION	SPECIFICATIONS	HEAT No.	MECHANICAL COMPOSITION				
					TENSILE Mpa 485 min.	YIELD Mpa 250 min.	ELONG 30 min. %	R/Area 2 in. %	HARDNESS HB 137 - 187
1	20	BLD 1" 300# R.F.	ASTM A-105N-14 SA-105 ASME SECC. II PARTE "A" ED. 2015 ASME/ANSI B16.5 (2017) NACE MR-0175-15/ ISO 15156 (2015)	5371	502	308	33	35	176
2	60	BLD 2" 300# R.F.		5375	505	308	33	35	182
3	10	BLD 3" 300# R.F.		RZ216378	502	300	36	30	181
4	10	BLD 4" 300# R.F.		RZ123678	505	296	35	30	182
5	5	BLD 6" 300# R.F.		RZ182106	510	340	39	31	155
6	5	S.O. 6" 150# R.F.		RZ123456	502	289	37	35	180
7	10	S.O. 1" 300# R.F.		RZ178001	510	315	30	31	140
8	10	W.N. 2" 300# R.F. SCH-80		RZ150902	496	299	37	32	179
9	9	W.N. 4" 300# R.F. SCH-80		T0731	495	268	34	38	170
10	11	W.N. 4" 300# R.F. SCH-80		2322	550	270	38	45	170
11	10	W.N. 6" 300# R.F. SCH-80		0 1207	510	268	31	37	168
12	3	W.N. 16" 300# R.F. SCH-40/XS		RZ159816	500	301	34	32	177

CHEMICAL COMPOSITION

ITEM	HEAT. No.	C 0.35 max.	Mn .60 - 1.05	P .035 max.	S .040 max.	Si .10 - .35	Cu .40 max.	Ni .40 max.	Cr .30 max.	Mo .12 max.	V .08 max.		CE .47 max.
1	5371	0.229	0.819	0.012	0.016	0.201	0.196	0.034	0.041	0.009	0.017	0.001	0.39
2	5375	0.229	0.618	0.011	0.018	0.186	0.211	0.042	0.063	0.014	0.010	0.001	0.37
3	RZ216378	0.214	0.811	0.012	0.015	0.186	0.204	0.041	0.067	0.012	0.011	0.001	0.38
4	RZ123678	0.214	0.689	0.011	0.009	0.185	0.204	0.041	0.062	0.012	0.011	0.001	0.36
5	RZ182106	0.190	0.600	0.011	0.013	0.220	0.203	0.041	0.033	0.015	0.016	0.001	0.32
6	RZ123456	0.198	0.620	0.019	0.019	0.158	0.109	0.033	0.056	0.021	0.009	0.001	0.33
7	RZ178001	0.200	0.620	0.011	0.011	0.210	0.017	0.028	0.023	0.005	0.001	0.001	0.31
8	RZ150902	0.213	0.816	0.016	0.021	0.196	0.212	0.042	0.074	0.016	0.021	0.001	0.39
9	T0731	0.210	0.940	0.014	0.006	0.230	0.004	0.004	0.022	0.003	0.002	0.001	0.37
10	2322	0.180	0.860	0.010	0.002	0.190	0.012	0.011	0.013	0.003	0.001	0.001	0.33
11	0 1207	0.190	0.920	0.014	0.005	0.220	0.004	0.012	0.023	0.005	0.003	0.001	0.35
12	RZ159816	0.224	0.813	0.024	0.017	0.184	0.205	0.042	0.076	0.016	0.021	0.001	0.40

La reproducción parcial o total de este documento es delito según el artículo 213 de la Ley de la Propiedad Industrial

^A The sum of cooper, nickel, chromium, molybdenum and vanadium shall not exceed 1.00 %

^B The sum of chromium and molybdenum shall not exceed 0.32 %

CE= $C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15$

NOTE: FORGED ROLLED 1150°C - 1200°C

NORMALIZED 900°C AND ALLOWED TO COOL IN STILL AIR.

QUALITY ASSURANCE CONTROL DEPARTMENT



FERRISA

FERRETERIA Y
REPRESENTACIONES
INTERNACIONALES,
S.A. DE C.V.
R.C. 17030203E55