PETRO FLANGE, S.A. DE C.V.

Vendido a: FERRETERIA Y REP. INT., S.A. DE C.V.
Direccion:
Pedido: TEL

Folio:	**3054**
Cert. No.	**PF-WN-718-98**
Date.	**27/01/029**

INSPECTION CERTIFICATE

ITEM	PCS	DESCRIPTION	SPECIFICATIONS	HEAT No.	MECHANICAL COMPOSITION TENSILE Mpa	YIELD Mpa	ELONG %	R/Area %	HARDNES HB
1	12	S.O. 16" 150# R.F.	ASTM A-105-05	140	486	250	32	31	162
2	17	S.O. 16" 150# R.F.	ASME SA-105-ED2007-AD08	529	542	265	26	34	176
3	1	S.O. 16" 150# R.F.	ASME B16.5	8213	490	265	33	37	161
			NACE MR-0175-03/05						
			BS3293						

CHEMICAL COMPOSITION

ITEM	HEAT. No.	C	Mn	P	S	Si	Cu [A]	Ni [A]	Cr [A,B]	Mo [A,B]	V [A]	Nb	CE
1	140	0.160	0.620	0.016	0.021	0.190	0.150	0.030	0.070	0.040	0.010	-	0.30
2	529	0.184	0.847	0.024	0.020	0.182	0.113	0.032	0.024	0.002	0.001	-	0.34
3	8213	0.170	0.680	0.017	0.015	0.200	0.170	0.030	0.080	0.030	0.050	-	0.33

[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%

Ni+Cu)/15

NOTE: FORGED ROLLED 1150°C -1200°C
NORMALIZED 900°C AND ALLOWED TO COOL IN STILL AIR.

QUALITY ASSURANCE CONTROL DEPARTAMENT

PETRO FLANGE S.A. DE C.V.
ENTREGADO