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

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

Folio:	3240
Cert. No.	PF-WN-875-265
Date.	01/04/2009

INSPECTION CERTIFICATE

ITEM	PCS	DESCRIPTION	SPECIFICATIONS	HEAT No.	MECHANICAL COMPOSITION TENSILE Mpa	YIELD Mpa	ELONG %	R/Area %	HARDNES HB
1	1	S.O. 36" 150# R.F.	ASTM A-105-05	836	497	269	26	36	146
2	60	W.N. 1 300# R.F.	ASME SA-105-05	07K00401	487	259	32	36	184
3	50	W.N. 2-1/2" 150# R.F. SCH-40	ASME B16.5-2003	819	536	284	33	38	146
4	150	W.N. 2-1/2" 150# R.F. SCH-40	NACE MR-0175-03/05	958	496	267	35	34	172

CHEMICAL COMPOSITION

ITEM	HEAT. No.	C	Mn	P	S	Si	Cu A	Ni A	Cr AB	Mo AB	V A	Nb	CE
1	836	0.186	0.759	0.025	0.036	0.240	0.264	0.027	0.095	0.098	0.001	-	0.37
2	07K00401	0.180	0.650	0.021	0.023	0.200	0.170	0.060	0.050	0.040	0.036	-	0.33
3	819	0.243	0.856	0.027	0.014	0.170	0.254	0.032	0.053	0.004	0.001	-	0.42
4	958	0.194	0.699	0.030	0.018	0.200	0.110	0.011	0.090	0.100	0.010	-	0.36

[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.

PETRO FLANGE S.A. DE C.V.
QUALITY ASSURANCE CONTROL DEPARTAMENT
P
ENTREGADO