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

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

Folio:	**3146**
Cert. No.	PF-WNSO-802-182
Date.	*10/03/2009*

INSPECTION CERTIFICATE

ITEM	PCS	DESCRIPTION	SPECIFICATIONS	HEAT No.	MECHANICAL COMPOSITION TENSILE Mpa	YIELD Mpa	ELONG %	R/Area %	HARDNES HB
1	6	S.O. 6" 300# R.F.	ASTM A-105-05	08K47406	485	250	26	36	159
2	100	W.N. 1-1/2" 150# R.F. SCH-40	ASME SA-105-05	08K47413	486	250	26	36	159
3	50	W.N. 1" 150# R.F. SCH-40	ASME B16.5-2003	08K47401	487	262	30	33	181
			NACE MR-0175-03/05						

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	08K47406	0.160	0.624	0.014	0.027	0.348	0.247	0.017	0.046	0.009	0.004	-	0.29
2	08K47413	0.160	0.620	0.016	0.021	0.190	0.150	0.030	0.070	0.040	0.010	-	0.30
3	08K47401	0.160	0.624	0.021	0.035	0.170	0.030	0.038	0.082	0.002	0.003	-	0.29

[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
ENTREGADO