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

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

Direccion:

Pedido: TEL

Folio:	**2777**
Cert. No.	PF-SWB-579-4
Date.	20/10/2008

INSPECTION CERTIFICATE

ITEM	PCS	DESCRIPTION	SPECIFICATIONS	HEAT No.	MECHANICAL COMPOSITION				
					TENSILE Mpa	YIELD Mpa	ELONG %	R/Area %	HARDNES HB
1	1	BLD 12" 150# R.F.	ASTM A-105-05 ASME SA-105-05 ASME B16.47 SERIE B-2003 NACE MR-0175-03/05 MSS SP-6 API 6A-6B	08K33812	487	259	32	36	184

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	08K33812	0.180	0.650	0.021	0.023	0.200	0.170	0.060	0.050	0.040	0.036	-	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.

PETRO FLANGE S.A. DE C.V.

QUALITY ASSURANCE CONTROL DEPARTAMENT

P F

ENTREGADO