PETROFLANGE

DISTRIBUIDOR INDUSTRIAS IBERO STEEL S.A. DE C.V.

Folio: 12 076

Cert. No. PF-WN-12076-11576

Date. 28/08/2018

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	2	S.O. 18" 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)	5L08018	504	295	33	37	181

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	5L08018	0.219	0.810	0.016	0.013	0.195	0.204	0.055	0.064	0.016	0.021	0.001	0.39

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QUALITY ASSURANCE CONTROL DEPARTAMENT

[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 1150ºC - 1200ºC

NORMALIZED 900ºC AND ALLOWED TO COOL IN STILL AIR.