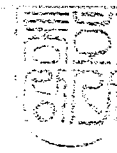


CERTIFICATE OF INSPECTION & TEST



ORIGINAL



ST&H CORPORATION
 411-3 Shinwol-ri, Jinryemyun, Gimhae-si Gyungnam, Korea
 Tel:82.51.744-4680(5 line) Fax:82.51.744-4670
 E-mail : stcorp@kornet.net

(EN 10204 3.1)

Certified to ISO9001:2008, PED97/23/EC by LRQA

Report No : MYM6979

Date: FEB.20.2012

Customer : PLESA ANAHUAC Y CIAS, SA DE CV AV.										Contract No. : 11890			Heat Treatment				
Spec. For Material : ASTM/ASME A/SA105N-05(NACE MR-0175)													910°C NORMALIZED				
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Nb					
Heat No.		MAX	0.350	0.350	1.050	0.035	0.040	0.400	0.300	0.120	0.400	0.080					
Y3176		MIN		0.100	0.600												
			0.200	0.220	1.000	0.013	0.007	0.009	0.015	0.003	0.006	0.005	Dimensional Inspection				
Tension Test						Charpy Impact Test (10x10 mm Specimen Size)				Hardness Test (HB)		Bending Test 90:120(180°)		ANSI B16.5-2009 GOOD			
Size of Specimen(mm)		Yield Strength MPa		Tensile Strength MPa		Elongation %		Red of Area %		Individual min		Average min				Notch Type	
Dia	Gage Length																
12.5 50		MAX								Test Result		Temp				187	
12.5 50		MIN		250.000	485.000	22.000	30.000	①	②	③	Average			137			
12.5 50				291.750	521.000	34.750	62.500					143-156		Ultrasonic Examination			
ITEM / SIZE			Q'TY		ITEM / SIZE				Q'TY		ITEM / SIZE			Q'TY		N/A Magnetic Particle Examination N/A Remarks : **CE = 0.37 (LONG FORMULAR)	
600LBS BLRF 2"			10		BLANK						BLANK						
BLANK																	

NOTE :
 1MPa = 145.037 psi
 1MPa = 0.145037 ksi
 1psi = 0.006895 MPa
 1ksi = 6.89476 MPa

W.C:Water Cool O.C:Oil Cool
 A.C:Air Cool N.A:Non Action
 N:Normalized A:Annealed
 Q.T:Quenched and Tempered
 N.T:Normalized and Tempered

We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirements called for by the above order.

[Signature]
 Witnessed by/ K. S. KIM

[Signature]
 Manager of Q.A Dept/ Y.M. CHOI