

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/SA105-05(NACE MR-0175)																
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Nb	AS FORGED			
Heat No.	MAX	0.350	0.350	1.050	0.035	0.040	0.400	0.300	0.120	0.400	0.080					
	MIN		0.100	0.600												
Y7302		0.200	0.220	0.810	0.016	0.012	0.010	0.012	0.003	0.019	0.003		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		Average								Notch Type
Dia	Gage Length					min		min								
12.5	50	MAX				Test Result				Temp	187					
		MIN	250.000	485.000	22.000	30.000	①	②	③		Average			137		
12.5	50		297.500	517.250	34.500						144-150			Ultrasonic Examination		
ITEM / SIZE			Q'TY		ITEM / SIZE			Q'TY		ITEM / SIZE			Q'TY		N/A Magnetic Particle Examination N/A Remarks : ***CE = 0.34 (LONG FORMULAR)	
150LBS BLRF 10"			20		300LBS BLRF 6"			10		BLANK						
150LBS BLRF 12"			5		BLANK											
150LBS BLRF 6"			100													
150LBS BLRF 8"			100													
300LBS BLRF 4"			20													

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.

Witnessed by/ K. S. KIM

Manager of Q.A Dept/ Y. M. CHOI