

CERTIFICATE OF INSPECTION & TEST

ORIGINAL

(EN 10204 3.1)



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Certified to ISO9001:2008, PED97/23/EC by LRQA
 Report No : MYM6979 Date: FEB.20.2012

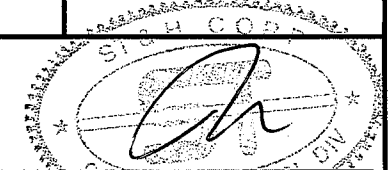
Customer : PLESA ANAHUAC Y CIAS, SA DE CV AV.										Contract No. : 11890			Heat Treatment		
Spec. For Material : ASTM/ASME A/SA105-05(NACE MR-0175)													AS FORGED		
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Nb			
Heat No.	MAX	0.350	0.350	1.050	0.035	0.040	0.400	0.300	0.120	0.400	0.080				
	MIN		0.100	0.600											
Y1023		0.220	0.210	0.890	0.024	0.022	0.030	0.015	0.005	0.014	0.005				
Tension Test						Charpy Impact Test (10x10 mm Specimen Size)				Hardness Test (HB)		Bending Test 90:120(180°)		Dimensional Inspection	
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				187					
		MIN	250.000	485.000	22.000	30.000	①	②	③	Average	137				
12.5	50		307.750	527.000	26.500	65.750					143-152	Ultrasonic Examination			
ITEM / SIZE		Q'TY		ITEM / SIZE				Q'TY		ITEM / SIZE		Q'TY		N/A	
150LBS BLRF 18"		5		150LBS WNRF STD 14"				5		BLANK				Magnetic Particle Examination	
150LBS SORF 16"		10		300LBS WNRF STD 10"				10						N/A	
150LBS SORF 18"		5		300LBS WNRF STD 3"				30						Remarks : **CE = 0.38 (LONG FORMULAR)	
150LBS SORF 20"		3		300LBS WNRF STD 6"				50							
150LBS SORF 24"		3		300LBS WNRF STD 8"				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