

CERTIFICATE OF INSPECTION & TEST

ORIGINAL



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(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)															
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Nb	910°C NORMALIZED		
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															
Size of Specimen(mm)						Charpy Impact Test (10x10 mm Specimen Size)					Hardness Test (HB)	Bending Test 90:120(180°)	ANSI B16.5-2009 GOOD		
Dia	Gage Length	Yield Strength MPa	Tensile Strength MPa	Elongation %	Red of Area %	Individual	Average	Notch Type							
						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		307.750	527.000	26.500	65.750					143-152				
ITEM / SIZE			Q'TY	ITEM / SIZE			Q'TY	ITEM / SIZE			Q'TY	Ultrasonic Examination N/A Magnetic Particle Examination N/A Remarks : **CE = 0.38 (LONG FORMULAR)			
600LBS BLRF 8"			10	BLANK				BLANK							
600LBS WNRF STD 4"			10												
600LBS WNRF STD 8"			10												
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.

Witnessed by/ K. S. KIM

Manager of QA Dept/ Y. M. CHOI