



CERTIFICATE OF INSPECTION & TEST

ORIGINAL



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(EN 10204 3.1)

Certified to ISO9001:2008, ISO14001:2004, PED97/23/EC by LRQA

Certified API Spec Q1 and API Spec 6A (Licence No : 6A-1284)



Customer : PLESA ANAHUAC Y CIAS.,S.A DE C.V.						Contract No. : 18529						Report No : MES8670			Date: JUL.24.2014	
Spec. For Material : ASTM/ASME A/SA105N-11a(NACE MR0175/ISO15156-2009)													Heat Treatment			
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	910°C NORMALIZED & A.C				
Heat No./Batch no.	MAX	0.350	0.350	1.050	0.035	0.040	0.400	0.300	0.120	0.400	0.080	Dimensional Inspection				
	MIN		0.100	0.600												
B6192		0.190	0.230	0.900	0.021	0.005	0.009	0.033	0.030	0.003	0.001	ASME B16.5 - 2009				
Tension Test						Charpy Impact Test (10x10 mm Specimen Size)						Hardness Test (HB)	Bending Test 90:120(180°)	GOOD		
Size of Specimen(mm)		Yield Strength MPa	Tensile Strength MPa	Elongation %	Red of Area %	Individual		Average		Notch Type						
Dia	Gage Length					Test Result		Temp		187						
12.5	50	MAX				①	②	③	Average			Ultrasonic Examination				
12.5	50	MIN	250.000	485.000	22.000					136, 140		N/A				
12.5	50		350.000	510.000	36.000							Magnetic Particle Examination				
ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	Remarks :				
150LBS BLRF 2"		100	150LBS THRF 3"		100	600LBS WNRF STD 2"		20	BLANK			**CE = 0.35 (LONG FORMULAR)				
150LBS SORF 2"		300	150LBS WNRF S80 2"		100							N/A				
300LBS SORF 2"		100	150LBS WNRF STD 3"		200											
600LBS SORF 2"		20	150LBS WNRF S80 3"		50											
150LBS THRF 2"		100	300LBS WNRF STD 2"		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 / H. J. LEE



Manager of O.A Dept. / E. S. PARK