

CERTIFICATE OF INSPECTION & TEST

ORIGINAL



ST&H CORPORATION
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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. : 13797				Report No : MHJ7564				Date: OCT.26.2012				
Spec. For Material : ASTM/ASME A/SA105-11(NACE MR-0175)												Heat Treatment				
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												
08235			0.186	0.200	0.830	0.014	0.009	0.004	0.130	0.008	0.022	0.003	Dimensional Inspection			
Tension Test						Charpy Impact Test (10x10 mm Specimen Size)			Hardness Test (HB)		Bending Test 90:120(180°)					
Size of Specimen(mm)		Yield Strength MPa	Tensile Strength MPa	Elongation %	Red of Area %	Individual		Average		Notch Type	Temp	187	ANSI B16.5 - 2009 GOOD			
Dia	Gage Length					min	min									
12.5	50	MAX				Test Result				142-145	Ultrasonic Examination					
		MIN	250.000	485.000	22.000	30.000	①	②	③				Average			
12.5	50		347.000	543.000	30.000	63.000						N/A				
ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY								
150LBS WNRF S80 2"		100	150LBS WNRF S80 10"		20	BLANK			Remarks : **CE = 0.35 (LONG FORMULAR)							
150LBS WNRF S80 3"		100	BLANK								Magnetic Particle Examination					
150LBS WNRF S80 4"		100											N/A			
150LBS WNRF S80 6"		100														
150LBS WNRF S80 8"		50														

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

Manage of Q.A Dept/ H. J. LEE