

# CERTIFICATE OF INSPECTION & TEST

**ORIGINAL**



**ST&H CORPORATION**  
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(EN 10204 3.1)

Certified to ISO9001:2008, PED97/23/EC by LRQA  
 Report No : MYM5925 Date: OCT.25.2010

Customer : PLESA ANAHUAC Y CIAS, SA DE CV AV.										Contract No. : 8863				Heat Treatment	
Spec. For Material : ASTM/ASME A/SA105N-05(NACE MR-0175-03)															
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											
04748			0.197	0.240	0.910	0.026	0.007	0.015	0.007	0.007	0.004	0.002	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	
Dia	Gage Length					min	min								
12.5	50	MAX				Test Result				Temp	187	ANSI B16.5-2003  GOOD			
		MIN	250.000	485.000	22.000	30.000	①	②	③		Average			137	
12.5	50		314.000	525.000	30.000	59.000					137-149				
ITEM / SIZE			Q'TY	ITEM / SIZE			Q'TY	ITEM / SIZE			Q'TY	Ultrasonic Examination			
600LBS SORF 2"			20	BLANK				BLANK				PASS			
600LBS SORF 3"			25									Magnaflux Examination			
BLANK												N/A			
												Remarks :			
												**CE = 0.35 (LONG FORMULAR)			

NOTE :  
 1MPa = 145.037 psi  
 1MPa = 0.145037 ksi  
 1psi = 6894.76 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