



# CERTIFICATE OF INSPECTION & TEST

ORIGINAL

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

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

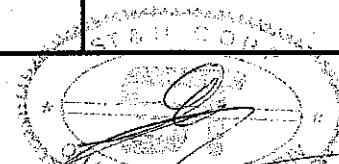
Certified API Spec Q1 and API Spec 6A (Licence No : 6A-1284)

Customer : PLESA ANAHUAC Y CIAS.,S.A DE C.V.				Contract No. : 17225				Report No : MJW8458				Date: JAN.02.2014	
Spec. For Material : ASTM/ASME A/SA105N-11(NACE MR0175/ISO 15156-2009)												Heat Treatment	
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	910°C NORMALIZED & AC	
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									
11551C		0.206	0.279	0.920	0.016	0.007	0.074	0.112	0.002	0.012	0.002	ANSI 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					min	min	Test Result		Temp			
12.5	50	MAX				①	②	③	Average		187	Ultrasonic Examination	
		MIN	250.000	485.000	22.000	30.000							
12.5	50		294.000	503.000	32.000	50.000				147, 149	Magnetic Particle Examination		
ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	Remarks :				
300LBS WNRF STD 2"		30	BLANK			BLANK			**CE = 0.39 (LONG FORMULAR)				
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 / H. J. LEE Manager of Q.A Dept./J.W. PARK