

CERTIFICATE OF INSPECTION & TEST

ORIGINAL



ST&H CORPORATION
74, Jwadongsunhwan-ro, Haeundae-gu, Busan, Korea
Tel : 82.51.744-4680(5line) Fax : 82.51.744-4670
E-mail : stnh@stnhcorp.com

(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 & 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						
	MIN		0.100	0.600													
T2697D		0.184	0.225	0.970	0.020	0.011	0.027	0.041	0.002	0.037	0.001	Dimensional Inspection					
Tension Test						Charpy Impact Test (10x10 mm Specimen Size)						Hardness Test (HB)		Bending Test 90:120(180°)		ANSI B16.5 - 2009 GOOD	
Size of Specimen(mm)		Yield Strength MPa	Tensile Strength MPa	Elongation %	Red of Area %	Individual		Average		Notch Type		Temp	187	146, 154			
Dia	Gage Length					min	min	Test Result									
12.5	50	MAX				①	②	③	Average								
		MIN	250.000	485.000	22.000	30.000											
12.5	50		301.000	542.000	27.000	40.000											
ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	Ultrasonic Examination N/A Magnetic Particle Examination N/A Remarks : **CE = 0.36 (LONG FORMULAR)								
300LBS WNRF STD 8"		20	BLANK			BLANK											
300LBS WNRF S80 8"		20															
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.

[Signature]



Witnessed by / H. J. LEE Manager of Q.A Dept./ J. W. PARK