

CERTIFICATE OF INSPECTION & TEST

ORIGINAL



ST&H CORPORATION
 411-3 Shinwol-ri, Jinryemyun, Gimhae-si Gyungnam, Korea
 Tel: 82.51.744-4680(5 line) Fax: 82.51.744-4670
 E-mail: stcorpn@kornet.net

(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. : 15982				Report No : MSH8188				Date: SEP.09.2013															
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																
	MIN		0.100	0.600																							
T10661		0.213	0.233	0.940	0.018	0.011	0.026	0.066	0.002	0.023	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				187																	
		MIN	250.000	485.000	22.000	30.000	①	②	③				Average	Temp													
12.5	50		332.000	521.000	35.000	59.000					154, 159																
ITEM / SIZE			Q'TY		ITEM / SIZE			Q'TY		ITEM / SIZE			Q'TY														
300LBS WNRF STD 4"			50		BLANK					BLANK																	
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. / S. H. LEE											