

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 : MYM6330 Date: MAY.02.2011

Customer : BROWNSVILLE STEEL CITY, LLC										Contract No. : BSC2011-231				Heat Treatment	
Spec. For Material : ASTM/ASME A/SA105-05(NACE MR-0175)															
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Nb	AS FORGED		
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											
1264A		0.190	0.260	0.970	0.016	0.005	0.010	0.020	0.010	0.010	0.010				
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	137	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	364.000	534.000	29.000	55.000										
ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		ANSI B16.5-2003				
150LBS SORF 2"		195	150LBS WNRF STD 2"		200	BLANK					GOOD				
150LBS SORF 8"		150	300LBS SORF 2"		50										
300LBS SORF 2"		20	150LBS WNRF STD 4"		250										
150LBS WNRF S80 2"		150	BLANK												
300LBS WNRF STD 4"		50													
ULTRASONIC EXAMINATION															
N/A															
Magnetic Particle Examination															
N/A															
Remarks : **CE = 0.36 (LONG FORMULAR)															

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/ Y. M. CHOI