

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 : stcorp@kornet.net

(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/SA105-05(NACE MR-0175-03)														
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										
04748		0.197	0.240	0.910	0.026	0.007	0.015	0.007	0.007	0.004	0.002			
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	Hardness Test (HB)	Bending Test 90:120(180°)	ANSI B16.5-2003 GOOD
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	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	ITEM / SIZE		Q'TY	Ultrasonic Examination N/A Magnaflux Examination N/A Remarks : **CE = 0.35 (LONG FORMULAR)		
150LBS BLRF 3"		20	150LBS SORF 2"		400	150LBS SORF 10"		50						
150LBS BLRF 4"		20	150LBS SORF 3"		400	150LBS SORF 12"		15						
150LBS BLRF 8"		20	150LBS SORF 5"		50	150LBS WNRF S80 2"		50						
150LBS THRF 2"		50	150LBS SORF 6"		300	150LBS WNRF STD 3"		100						
150LBS THRF 3"		50	150LBS SORF 8"		150	150LBS WNRF STD 8"		100						

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