

# MILL CERTIFICATE

(EN 10204 3.1)

COPY



ST AND H CORP  
1270-4 JWA3DONG, HAEUNDAEGU BUSAN  
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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.

Certified by PED97/23/EC by LRQA

Report No : MYM5509

Date: MAR.31.2010

Customer : PLESA ANAHUAC Y CIAS, SA DE CV AV.										No. & date of LC : DC MXH100500			FEB.19.2010		Heat Treatment	
Spec. For Material : ASTM A105N-05/ASME SA105N(NACE MR-0175)																
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	N	910°C NORMALIZED			
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												
07516			0.207	0.245	0.910	0.018	0.009	0.009	0.010	0.002	0.010	0.001	Dimensional Inspection			
Tension Test						Charpy Impact Test (10x10 mm Specimen Size)			Hardness Test (HB)	Bending Test 90:120(180°)		ANSI B16.5-2003  GOOD				
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				Temp	187					
		MIN	250.000	485.000	22.000	30.000	①	②	③		Average	137				
12.5	50		373.270	598.930	30.700	62.045					143-146					
ITEM / SIZE		Q'TY		ITEM / SIZE		Q'TY		ITEM / SIZE		Q'TY		Ultrasonic Examination  PASS  Magnaflex Examination  N/A  Remarks : **CE = 0.36 (LONG FORMULAR)				
600LBS BLRF 2"		10		600LBS SORF 4"		10		BLANK								
600LBS BLRF 3"		10		600LBS WNRF STD 2"		10										
600LBS BLRF 4"		10		600LBS WNRF STD 3"		10										
600LBS SORF 2"		15		600LBS WNRF STD 4"		15										
600LBS SORF 3"		15		BLANK												
<p>NOTE : W.C:Water Cool O.C.Oil Cool A.C:Air Cool N.A:Non Action 1MPa = 145.037 psi 1MPa = 0.145037 ksi 1psi = 6894.76 MPa 1ksi = 6.89476 MPa N:Normalized A:Annealed Q.T:Quenched and Tempered N.T:Normalized and Tempered</p> <p>* DESCRIPTION OF GOODS: CIF . 3.445 PC, ANSI B16.5 ASTM A105/SA105 FORGED STEEL FLANGE. THE 3.445 PC WHICH COVERS THE SHIPMENT IS INDIFFERENT SIZES. WITH A NET WEIGHT APPROX 47.240 KGS</p>																
Witnessed by										 Manager GEO A Dept.						