

MILL CERTIFICATE

(EN 10204 3.1)

COPY



ST AND H CORP
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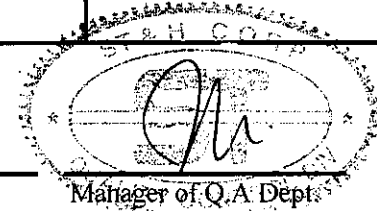
We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirements called for by the above order.

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										
20176		0.213	0.226	0.860	0.014	0.011	0.018	0.011	0.002	0.017	0.002		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	Temp		Test Result		187		
12.5	50	MAX				①	②	③	Average	137			Ultrasonic Examination	
12.5	50	MIN	250.000	485.000	22.000					143-149				
12.5	50		372.670	579.790	32.900								PASS	
ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	Ultrasonic Examination		
600LBS BLRF 6"		15	600LBS WNRF STD 6"		10	BLANK			BLANK			Magnaflex Examination		
600LBS BLRF 8"		10	600LBS WNRF STD 8"		15	BLANK			BLANK			N/A		
600LBS SORF 6"		10	600LBS WNRF STD 10"		10	BLANK			BLANK			Remarks :		
600LBS SORF 8"		5	BLANK			BLANK			BLANK			**CE = 0.36 (LONG FORMULAR)		
600LBS SORF 10"		5	BLANK			BLANK			BLANK			BLANK		
NOTE :		W.C:Water Cool O.C.Oil Cool		* DESCRIPTION OF GOODS:		CIF .								
1MPa = 145.037 psi		A.C:Air Cool N.A:Non Action		3.445 PC, ANSI B16.5 ASTM A105/SA105 FORGED STEEL FLANGE.										
1MPa = 0.145037 ksi		N:Normalized A:Annealed		THE 3.445 PC WHICH COVERS THE SHIPMENT IS INDIFFERENT SIZES.										
1psi = 6894.76 MPa		Q.T:Quenched and Tempered		WITH A NET WEIGHT APPROX 47.240 KGS										
1ksi = 6.89476 MPa		N.T:Normalized and Tempered												



Witnessed by

Manager of Q.A Dept.