

Material Test Report

Heat Code: XBS

An Ameri-Forge Group Company

13770 Industrial Rd. Houston, TX 77015

ISO 9001:2008 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA STEEL INC. 12700 NORTHBOROUGH DR STE 646 Houston, TX 77067	PO: 232	Sales Order: 136529	Line: 2
	Item Code: 0152600100-0020F		Qty Shipped: 100
	Item Desc: FLG 06.00 0150 SO RF		
	Supplier: ASW Steel Inc.		Supplier Heat: 76565
Spec: ASTM A105/A105M-(13)/ASME SA 105/SA 105M-(13) Section II Part A			

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.20				Cr	Chromium	0.06		✓	7440-47-3
Mn	Manganese	1.09		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.011				V	Vanadium	0.002			
S	Sulphur	0.001				Cb	Columbium	0.004			
Si	Silicon	0.25				C.E.		0.42			
Cu	Copper	0.23		✓	7440-50-8	CuNiCrMo		0.379			
Ni	Nickel	0.07		✓	7440-02-0	CrMo		0.079			

Mechanical Testing				Other	
Test Lab		AFG		MILL	ASW STEEL
Test Bar Size		SACRIFICIAL PIECE		MHC	76565
HBW		167 - 170		Country of Origin	CANADA
Elg (%)		34			
RA (%)		63			
Tensile Specimen Size (in)		.497			
Tensile (ksi)		80.9			
Yield (ksi)		48.4			
Gauge Length		2			

- * No Weld repair performed.
- * Ladle Chemical Analysis results are reported from the raw material suppliers MTR.
- * Forgings are capable of passing hydrostatic test compatible with the appropriate rating.
- * Elongation taken from a round specimen.
- * Yield strength was determined using the .2% offset method.
- * All material supplied under this order is certified to be free of mercury contamination and no mercury bearing equipment was used in manufacture.