

Material Test Report

Heat Code: WGR

An Ameri-Forge Group Company
13770 Industrial Rd. Houston, TX 77015
Sales: (713) 868-4421 Fax: (713) 455-8366

ISO 9001:2008 Certified

PLESA STEEL INC. 5100 WESTHEIMER ROAD SUITE 200 Houston, TX 77056	PO: 138	Sales Order: 129790	Line: 4
	Item Code: 0152500100-0020F		Qty Shipped: 10
	Item Desc: FLG 05.00 0150 SO RF		
	Supplier: ASW Steel Inc.	Supplier Heat: 76297	
Spec: ASTM A105/A105M-(12)/ASME SA 105/SA 105M-(13) Section II Part A			

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.19				Cr	Chromium	0.10		✓	7440-47-3
Mn	Manganese	1.07		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.008				V	Vanadium	0.003			
S	Sulphur	0.005				Cb	Columbium	0.01			
Si	Silicon	0.24				C.E.		0.41			
Cu	Copper	0.16		✓	7440-50-8	CuNiCrMo		0.394			
Ni	Nickel	0.11		✓	7440-02-0	CrMo		0.124			

Mechanical Testing				Other			
Test Lab	AFG			MILL	ASW STEEL		
Test Bar Size	Sacrificial Piece			MHC	76297		
HBW	167 - 167						
Elg (%)	29						
RA (%)	59						
Tensile Specimen Size (in)	.496						
Tensile (ksi)	82.4						
Yield (ksi)	50.2						
Gauge Length	2						

AmeriForge manufactures materials according to a certified Quality Management System conforming to ISO 9001:2008 and in compliance to PED 97/23/EC, Section 4.3
 No Weld repair performed. Chemical Analysis results shown are actual. 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 manufacturing, fabrication or testing. Made in USA.
 No weld repair performed on this product.
 Product compliant with NACE MR0175 / ISO 15156 latest edition and dimensions to ASME B16.5 - 2013
 Tensile Testing Per ASTM E8; Brinell Hardness Per ASTM E10

EPCRA Supplier Notification: This product may contain one or more toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potentially reportable chemicals are indicated with a checkmark in the "EPCRA" column and a Chemical Abstract Services (CAS) registry number is provided for each such chemical in addition to the percent by weight of the chemical present in this product. It is your responsibility alone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.: 283005
 Certification Date: 11/7/2013

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1.5

M. Hingwe
 Mandar Hingwe - Dir. of Quality and Metallurgy