

Material Test Report

Heat Code: WMB

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. 5100 WESTHEIMER ROAD SUITE 200

Item Code: 0152200100-0020F

Sales Order: 127804 Line: 4 Qty Shipped: 100

Item Desc: FLG 02.00 0150 SO RF

Houston, TX 77056

Supplier: ASW Steel Inc.

Supplier Heat: 76328 Spec: ASTM A105/A105M-(12)/ASME SA 105/SA 105M-(13) Section II Part A

Elen	nent	(%wt)	Ladle	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C,	Carbon) '	0.19				Cr Chrom	ium	0.12		✓ .	7440-47-3
Mn	n Manganese 1		1.07	√ 7439-96-5		Mo Molybdenum		0.03				
P	Phosphorous		0.006				V Vanad	ium	0.002			
Ś	Sulphu	ır	0.001				Cb Colum	bium	0.004			
Si	i Sílicon		0.23			C.E.		0.42				
Cu	Copper		0.20		√ 7440-50-8		CuNiCrMo		0.449			
Ni	i Nickel		0.10		✓	7440-02-0	CrMo		0.149			

Mechanical T	esting		Other
Test Lab	AFG	MILL	ASW STEEL
Test Bar Size	Sacrificial Piece	мнс	76328
HBM	174 ~ 174	ΔD	Y
Elg (%)	30	:	
RA (%)	75	•	
Tensile Specimen Size (in)	.496	. •	
Tensile (ksi)	83	<u> </u>	•
Yield (ksi)	49.7		•
Gauge Length	2	•	
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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

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 chamical 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.:

279899

Certification Date:

10/5/2013

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