

Material Test Report

Heat Code: WFK

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 Houston, TX 77056	PO: 145	Sales Order: 131118	Line: 3
	Item Code: 0151250101-0020F		Qty Shipped: 20
	Item Desc: FLG 02.50 0150 WN RF STD		
	Supplier: ASW Steel Inc.		Supplier Heat: 76283
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	0.18				Cr	Chromium	0.11		✓	7440-47-3
Mn	Manganese	1.07		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.009				V	Vanadium	0.004			
S	Sulphur	0.002				Cb	Columbium	0.004			
Si	Silicon	0.29				C.E.		0.40			
Cu	Copper	0.16		✓	7440-50-8	CuNiCrMo		0.375			
Ni	Nickel	0.08		✓	7440-02-0	CrMo		0.135			

Mechanical Testing				Other			
Test Lab	AFG			MILL	ASW STEEL		
Test Bar Size	Sacrificial Piece			MHC	76283		
HBW	170 - 170						
Elg (%)	32						
RA (%)	67						
Tensile Specimen Size (in)	.497						
Tensile (ksi)	81.4						
Yield (ksi)	48.1						
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.: 287417

Certification Date: 1/6/2014

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

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