

COFFER®
an **AFGBal** Company

Material Test Report

Heat Code: WPM

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: 187	Sales Order: 134753	Line: 3
	Item Code: 0151910101-0020F		Qty Shipped: 1
	Item Desc: FLG 10.00 0150 WN RF STD		
	Supplier: ASW Steel Inc.		Supplier Heat: 76428
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	0.06		✓	7440-47-3
Mn	Manganese	1.08		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.005				V	Vanadium	0.001			
S	Sulphur	0.001				Cb	Columbium	0.002			
Si	Silicon	0.27				C.E.		0.40			
Cu	Copper	0.17		✓	7440-50-8	CuNiCrMo		0.331			
Ni	Nickel	0.08		✓	7440-02-0	CrMo		0.081			

Mechanical Testing				Other			
Test Lab		AFG		MILL		ASW STEEL	
Test Bar Size		Sacrificial Piece		MHC		76428	
HBW		163 - 163		Country of Origin		CANADA	
Elg (%)		23		DESC:		Cost Cnt #107527	
RA (%)		38					
Tensile Specimen Size (in)		.492					
Tensile (ksi)		78.6					
Yield (ksi)		45.2					
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.: 297406
Certification Date: 4/9/2014

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


Mandar Hingwe - Dir. of Quality and Metallurgy