Material Test Report

COFFER* an AFG bal Company

Heat Code: WDK

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77635

ISO 9001:2008 Certified

Sales: (713) 868-4421 Fax: (713) 455-8360

PLESA STEEL INC. PO: 170 Sales Order: 132866 Line: 9 12700 NORTHBOROUGH DR Item Code: 0151400102-0020F Qty Shipped: 30 STE 646 Item Desc: FLG 04.00 0150 WN RF XH Houston, TX 77067 Supplier: CMC Supplier Heat: 3038981 Spec: ASTM A105/A105M-(12)/ASME SA 105/SA 105M-(13) Section

Eler	nent (%wt)	Ladle	Product	EPCR	A CAS#	Eler	ment (%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.20				Cr	Chromium	0.09			440-47-3
Mn	Manganese	1.00		1	7439-96-5	Mo	Molybdenum	0.03		550 6	parties again
P	Phosphorous	0.013				iv	Vanadium	0.004			
S	Sulphur	0.019				Сь	Columbium	0.001			
Si	Silicon	0.22				C.E		0.42			
Cu	Copper	0.23		1	7440-50-8	Cun	iCrMo	0.449			
Ni	Nickel	0.10		1	7440-02-0	CrM	٥	0.119			

Mechanical T	esting	01	ther
Test Lab	AFG	MILL	CMC
Test Bar Size	Sacrificial Piece	мнс	3036981
HBW	152 - 152	Country of Origin	USA
Elg (%)	31	EF	Y
8A (%)	58		-
Tensile Specimen Size (in)	.249	n a	
Tensile (ksi)	77.6	<u> </u>	
Yield (ksi)	45.9	*	
Gauge Length	1		
		*	
		:	

AmeriForge manufactures materials according to a certified Quality Management System conforming to ISO 9001:2009 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 scrength 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 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:

291945

Certification Date: 2/18/2014

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

Mandar Hingwe - Dir. of Quality and Metallurey