Material Test Report

COFFER* an AFGI Company

Heat Code: VKF

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. PO: 138 Sales Order: 129790 Line: 8 5100 WESTHEIMER ROAD Item Code: 0151800102-0020F Qty Shipped: 30 SUITE 200 Item Desc: FLG 08.00 0150 WN RF XH Houston, TX 77056 Supplier: CMC Supplier Heat: 3037149 Spec: ASTM A105/A105M-(12)/ASME SA 105/SA 105M-(13) Section II Part A

Element	(%wt)	Ladle	Product	EPCF	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C Carb	on	0.19				:Cr Chro	mium	0.06		√ 7	440-47-3
Mn Mang	anese	0.99		✓	7439-96-5	Mo Moly	bdenum	0.02		·	
P Phos	phorous	0.012				V Vana	dium	0.004			
S Sulp	hur .	0.024				Cb Colu	mbium	0.000			
Si Sili	con	0.24				C.E.		0.39			
Си Сорр	ec	0.24		✓	7440-50-8	CuNiCrMc		0,397			
Ni Nick	el	0.08		1	7440-02-0	CrMo		0.077			

Mechanical T	esting	Other			
Test Lab	AFG	MILL	CMC		
Test Bar Size	Sacrificial Piece	MHC	3037149		
HB <i>A</i>	170 - 170	Country of Origin	USA		
Elg (%)	32.0	EF	Y		
RA (%)	58.0				
Tensile Specimen Size (in)	.500	•			
Tensile (ksi)	82.0				
Yield (ksi)	46.3				
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 chemical in addition to the percent by weight of the chemical present in this product. It is your responsibility along to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.:

283001

Certification Date:

11/7/2013

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