Coffer®

Material Test Report

Heat Code: VOK

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: 127
 Sales Order: 128180
 Line: 1

 5100 WESTHEIMER ROAD
 Item Code: 0301200102-0020F
 Qty Shipped: 40

 SUITE 200
 Item Desc: FLG 02.00 0300 WN RF XH

 Houston, TX 77056
 Supplier: CMC
 Supplier Heat: 3037502

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

nt (%wt)	Ladle	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
arbon	0.19				:Cr Chron	nium	0.10			440-47-3
anganese	0.96		✓	7439-96-5	Mo Molyk	denum	0.03			
hospherous	0.011				V Vanac	lium	0.004			
ulphur	0.016				Cb Colum	ab i um	0.000			
ilicon	0.24				C.E.		0.40			
opper	0.21		✓	7440-50-8	Cunicrmo		0.444			
Ni Nickel 0.10		1	7440-02-0	CrMo		0.134				
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	anganese nosphorous :lphur ilicon opper	anganese 0.96 nosphorous 0.011 alphur 0.016 ilicon 0.24 opper 0.21	anganese 0.96 absphorous 0.011 alphur 0.016 ilicon 0.24 apper 0.21	# 0.96	#nganese 0.96	enganese 0.96	### 1000 ###	### ##################################	######################################	######################################

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Mechanical To	esting		Other
Test Lab	AFG	MILL	CMC
Test Bar Size	Sacrifícial Piece	MHC	3037502
HBW	167 - 167	Country of Origin	USA
Elg (%)	27	EF	Y
RA (%)	61	DESC:	Tag: LADISH-30-2-80
Tensile Specimen Size (in)	246		
Tensile (ks1)	80.7		
Yield (ksi)	46.8		
Gauge Length	1	;	
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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 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.:

278452

Certification Date:

9/19/2013

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