Material Test Report

Heat Code: WPU

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: 140
 Sales Order: 129876
 Line: 3

 5100 WESTHEIMER ROAD
 Item Code: 0152300100-0020F
 Qty Shipped: 100

 SUITE 200
 Item Desc: FLG 03.00 0150 SO RF

 Houston, TX 77056
 Supplier: CMC
 Supplier Heat: 3041583

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

Mn Mar	rbon .ganese	0.20		-	i Cr Ch			 	
	nganese	1.03			:Cr Chrom	ium	0.08	/	7440-47-3
p pho			V 74:	39-96-5	Mo Molyb	denum	0.02		
	osphorous	0.010			V Vanad	ium	0.002		
S Sul	lphur	0.016			Cb Columb	bium	0.003		
Si Sil	licon	0.23			C.E.		0.42		
Cu Cep	pper	0.27	√ 74	40-50-8	CuNiCrMo		0.450		
Ni Nick	ckel	0.08	✓ 74	40-02-0	CrMo		0.100		

				White the same	
Mochanical To	esting	Other			
Test Lab	AFG	MILL	CMC	1.	
Test Bar Size	Sacrificial Piece	мнс	3041583		
HBW	163 - 163	Country of Origin	USA		
Elg (%)	30.0	EF	Y		
RA (%)	60.0				
Tensile Specimen Size (in)	.248				
Tensile (ksi)	81.7			8	
Yield (ksi)	47.4	i			
Gauge Length	1 -	•		1	
And the second second					
			14		
		<u>.</u>			
		40			
		•			

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.:

283240

Certification Date:

COFFER*

an AFG Da Company

11/10/2013

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