

Material Test Report

Heat Code: WPW

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015 Sales: (713) 868-4421 Fax: (713) 455-8366

ISO 9001:2008 Certified

 PLESA STEEL INC.
 PO: 132
 Sales Order: 128642
 Line: 1

 5100 WESTHEIMER ROAD
 Item Code: 0152400100-0020F
 Qty Shipped: 200

 SUITE 200
 Item Desc: FLG 04.00 0150 SO RF

 Houston, TX 77056
 Supplier: CMC
 Supplier Heat: 3041585

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

•	bon ganese	0.19 1.00	•		Cr	Chromi	1200	0.11	 	
•	ganese '	1.00				CITA OUGA	. CONT	للبذيات	√ 7:	440-47-3
P Phos			✓	7439-96-5	Мо	Mo Lybd	lenum	0.02		
	sphorous	0.009			v	Vanadi	un.	0.002		
Տ Տա1բ	phur	0.019			: Cb	Columb	ium	0.003		
Si sili	icon	0.23			C.E.			0.41		
Cu Copp	per	0.24	1	7440-50-8	CuNi	iCrMo		0.455		
Ni Nick	kel	0.08	✓	7440-02-0	CrMc	5		0.135		

Mechanical T	esting	Other			
Test Lab	AFG	MILL	CMC		
Test Bar Size	Sacrificial Piece	мнс	3041585		
HBW	156 - 156	Country of Origin	USA (US)		
Elg (%)	30.0	EF	Y		
RA (%)	57.0	<u> </u>			
Tensile Specimen Size (in)	.500				
Tensile (ksi)	79.0	į			
Yield (ksi)	45.4				
Gauge Length	2	•			
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AmeriForge manufactures materials according to a certified Quality Management System conforming to ISO 9001:200 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.:

279652

Certification Date:

10/3/2013

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