Material Test Report

· COFFER* an AFG bal Company

Heat Code: wox

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: 170 Sales Order: 132866 Line: 12700 NCRTHBOROUGH DR Item Code: 0152600100-0020F Qty Shipped: STE 646 Item Desc: FLG 06.00 0150 SO RF Houston, TX 77067 Supplier: ASW Steel Inc. Supplier Heat: 76404 Spec: ASTM A105/A105M-(12)/ASME SA 105/SA 105M-(13) Section II Part A

Eler	nent	(%wt)	Ladle	Product	EPCR	A CAS#	Eler	nent	(%wt)	Ladie	Product	EPCRA	CAST
C	Carbon)	0.19				Cr	Chro	mium	0.08			140-47-3
Mn	Mangan	ese	1,10		/	7439-96-5	Mo	Moly	odenum	0.02			
D	Phosphorous		0.007				· v	Vana	di um	0.002			
S	Sulphu	r.	0.005				Cb	Colu	mbium	0.002			
Si	Silico	n	0.22				C.E			0.41			
Cu	Copper		0.14		/	7440-50-8	CuniCrMo		0.311				
N:	i Nickel		0.07		✓	7440-02-0	CrM	0		0.101			

Mechanical T	esting	•	Other
Test Lab	AFG	MILL	ASW STEEL
Test Bar Size	SACRIFICIAL PIECE	мнс	76404
MBM	152 - 152	Country of Origin	CANADA
Elg (%)	32	The state of the s	
RA (%)	64	:	
Tensile Specimen Size (in)	.496		
Tensile (ksi)	78.6		
Yield (ksi)	48.2		
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. Gade 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 312

Certification No.:

291950

Certification Date:

2/18/2014

This report is issued in compliance with the requirements of EN10204 3.17 ISO 10474 3.1.b

Mandar Hingwe - Dir. of Quality and Metallurgy