Material Test Report

COFFER® an A Jahran Company

Heat Code: VTO

An Ameri-Forge Group Company 13770 Industrial Rd, Houston, TX 77015

ISO 9001:2008 Certified Sales: (713) 868-4421 Fax: (713) 455-8365

PLESA STEEL INC. PO: 145 Sales Order: 131118 Line: 6 5100 WESTHEIMER ROAD Item Code: 0151600102-0020F Qty Shipped; 100 SUITE 200 Item Desc: FLG 06.00 0150 WN RF XH Houston, TX 77056 Supplier: CMC Supplier Heat: 3037931

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

Elem	ent (%wt)	Ladle	Product	EP¢R/	A CAS#	Elem	ent	(%wt)	Ladie	Product	EPCRA	CAS#
C	Carbon	0.20		······································		Cr	Chromi		0,08	Providental State of the Street	. And the Association of the London of Association of the London of the	440-47-3
Mn	Manganese	0.99		1	7439-96-5	Мо	Molybo		0.03		,	, , , , , ,
P	Phosphorous	0.010				v	Vanadi		0.003			
S ·	Sulphur	0.017				Cb	Columb		0.000			
Si	Silicon	0.24				C.E.			0.41	•		
Cu	Copper	0.19		✓	7440-50-8	CuNi			0.379			
Ni	Nickel	80.0		✓	7440-02-0	CrMo			0,109			•
						;						

Mechanical To	esting	Other				
Test Lab	AFG	MILL	CMC			
Test Bar Size	Sacrificial Piece	мнс	3037931			
HBW	170 - 170	Country of Origin	067.731 K80			
Elg (%)	26.0	EF	Y			
RA (%)	54.0		•			
Tensile Specimen Size (in)	,492					
Tensile (ksi)	83.7					
Yield (kai)	47.4	į				
Gauge Length	.2	•				
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AmeriForge manufactures materials according to a certified Quality Management System conforming to ISO 9001:2006 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 alone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.:

287420

Certification Date:

1/6/2014

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