

Houston, TX 77056

## **Material Test Report**

Heat Code: VEM

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

ISO 9001:2008 Certified

PO: 99 Sales Order: 125620 Line: 9 PLESA STEEL INC. 5100 WESTHEIMER ROAD Item Code: 0601300101-0021F Qty Shipped: 20 Item Desc: FLG 03.00 0600 WN RF STD SUITE 200 Supplier Heat: 3035588

Spec: ASTM A105/A105N-(12)/ASME SA 105/SA 105N-(08a) Section II Part A - Normalized

Supplier: CMC

Elemen	it (%wt)	L.adle	Product	EPCRA	CAS#	Elen	nent	(%wt)	Ladie	Product	EPCR	A CAS#
C Ca	arbon	0.20				Ni	Nickel		0.10		✓	7440-02-0
Mn ма	anganese	1.02		✓ *	7439-96-5	Cr	Chromiu	mi	0.06		1	7440-47-3
P Ph	hosphorous	0.010				Мо	Molybde	unu	0.025			
S Su	ulphur	0.019				v .	Vanadiu	m	0.003			
Si si	ilicon	0.19				Cb	Columbi	um	0.003			
Cụ co	opper	0.22		✓ 7	7440-50-8	C.E.			0.41			

Machanita i Ta	-41	Host Te	nat			
Mechanical Te		Heat Treat				
Test Lab	AFG	Norm. Temp. (F)	1675			
Test Bar Size	Sacrificial Piece	Norm. (Hrs)	4			
HBW	159 - 159	Norm. Cooling Type	AIR			
Elg (%)	32	Norm. Location	AFG			
RA (%)	61	•				
Tensile Specimen Size (in)	.498	Other	r			
Tensile (ksi)	78.6	MILL	CMC-TEXAS			
Yield (ksi)	47.9	MHC	3035588			
Gauge Length	2	Country of Origin	USA			
		EF	¥			
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Product compliant with NACE MR0175 / ISO 15156 and NACE MR0103 / ISO 15156 latest edition and dimensions to ANSI

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 welding performed.

AmeriForge manufactures materials according to a certified Quality Management System conforming to ISO 9001:2008 and in complance to PED 97/23/EC, Section 4.3

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.: 272758

Certification Date: 7/16/2013

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