

Material Test Report

Heat Code: VUO

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. 5100 WESTHEIMER ROAD PO: 99 Saltem Code: 0601400102-0021F

 Sales Order:
 125620
 Line:
 11

 F
 Qty Shipped:
 50

SUITE 200

Item Desc: FLG 04.00 0600 WN RF XH

Supplier Heat: 3038569

Houston, TX 77056

Supplier: CMC Supplie

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

Elem	ent (%wt)	Ladie	Product	EPCRA CAS#	Element (%wt)	Ladle	Product EPCRA CAS#
C	Carbon	0.20			Ni Nickel	0.11	₹ 7440-02-0
Mn	Manganese	1.01		√ 7439-96-5	Cr Chromium	0.10	√ 7440-47-3
P	Phosphorous	0.011			Mo Molybdenum	0.029	
S	Sulphur	0.019		i	V Vanadium	0.002	
Si	Silicon	0.22			Cb Columbium	0.000	
Cu	Copper	0.18		√ 7440-50-8	C.E.	0.41	

	esting	Heat Treat		
est Lab	AFG	Norm. Temp. (F)	1675	
est Bar Size	Sacrificial Piece	Norm. (Hrs)	4	
BW .	159 - 159	Norm. Cooling Type	AIR	
lg (%)	33	Norm. Location	AFG	
A (%)	62			
Tensile Specimen Size (in) .495		Other		
ensile (ksi)	78.5	MILL	CMC	
ield (ksi)	47.9	мнс	3038569	
auge Length	2	Country of Origin	USA (US)	
		ef	Y	
		DESC:	SPL 2"	
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		Î	4	

Product compliant with NACE MR0175 / ISO 15156 and NACE MR0103 / ISO 15156 latest edition and dimensions to ANS B16.5 - 2009

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 9001:2006 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.:

272760

Certification Date:

7/16/2013

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