

Material Test Report

Heat Code: UVR

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: 42
 Sales Order: 116720
 Line: 19

 5100 WESTHEIMER ROAD
 Item Code: 0601910180-0021F
 Qty Shipped: 5

 SUITE 200
 Item Desc: FLG 10.00 0600 WN RF 80

 Houston, TX 77056
 Supplier: Supplier Heat: 4M84429

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

Elem	nent	(%wt)	Ladle	Product	EPCR	A CAS#	Elen	nent	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon		0.19				:Ni	Nicke	1	0.10		1	7440-02-0
Mn	Mangan	ese	1.06		1	7439-96-5	Cr	Chrom	ium	0.19		1	7440-47-3
P	Phosph	orous	0.016				Мо	Molyb	denum	0.01			
S	Sulphu		0.008				iv	Vanad	ium	0.003			
Si	Silico	n	0.18				Cb	Colum	bium	0.001			
Cu	Copper		0.24		✓	7440-50-8	C.E			0.43			
	1000												
							1						

MechanicalTe	esting	н	eat Treat
Teit Lab	AFG	Norm. Temp. (F)	1675
Test Bar Size	Sacrificial Piece	Norm. (Hrs)	4
HBW	143 - 143	: Norm. Cooling Type	AIR
Elg (%)	37	Norm. Location	AFG
RA (%)	69		
Tensile Specimen Size (in)	.248		Other
Tensile (ksi)	77.7	: MHC	4M84429
Yield (ksi)			
Gauge Length		•	

Product compliant with NACE MR0175 / ISO 15156 and NACE MR0103 / ISO 15156 latest edition and dimensions to ANSEB16.5 \cdot 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 9001:2008 and in compiance 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.: 256660
Certification Date: 1/7 / 2013

Mandar Hingwe - Dir. of Quality and Metallurgy