

Heat Code: VRU

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

ISO 9001:2008 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

PO: 82 PLESA STEEL INC. (SalesOrder: 122004 Cine: 5 5100 WESTHEIMER ROAD Item Code: 0151200102-0020F Qty Shipped: 100 SUITE 200 Item Desc: FLG 02.00 0150 WN RF XH

Houston, TX 77056 Supplier: CMC Supplier Heat: 3037920

Spec: ASTM A105/A105M-(12)/ASME SA 105/SA 105M-(08a) Section II Part A

Elem	ent (%v	vt) Ladle	Product	EPCR.	A CAS#	Eler	nent	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.19				Cr	Chrom	ium	0.09		√ 7	440-47-3
Mh	Manganese	1.01		✓	7439-96-5	Мо	Molyb	denum	0.03			
P	Phosphorous	0.011				V	Vanad	ium	0.003			
S	Sulphur	0.018				: Cb	Colum	oium	0.0000			
Si	Silicon	0.24				C.E.		0.41				
Cu	Copper	0.22		✓	7440-50-8	CuNiCrMo		0.442				
Νi	Nickel	0.10		✓	7440-02-0	CrMo		0.122				
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Mechanical Testi	ng		Other
Test Lab	AFG	: MILL	CMC-TEXAS
Test Bar Size	SACRIFICIAL PIECE	мнс	3037920
HBW	170 - 170	Country of Origin	USA
Elg (%)	2 9	: EF	Y
RA (%)	58		
Tensile Specimen Size (in)	.246		
Tensile (ksi)	85.3		
Yield (ksi)	49.6		
Gauge Length	1		

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 weld repair performed on this product.

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

Tensile Testing Per ASIM E8; Brinell Hardness Per ASIM E10

Forged in USA

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 Reportunder EPCRA Section 313.

Certification No.: 263696 Certification Date: 3/25/2013

This report is issued in compliance with the requirements of EN10204 $3.11\,\mathrm{ISO}\ 10474\,3.1.b$