

Material Test Report

Heat Code: AMV

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

ISO 9001:2000 Certified

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

PO: 6849 PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS ALAMEDAS 66-0

54940 TULTITLAN, EDO, MEX

Sales Order: 70840 Line: 6 Item Code: 0302400100-0020F Qty Shipped: 65

Item Desc: FLG 04.00 0300 SO RF

Supplier: CMC Supplier Heat: 3001382

Spec: ASTM A105/A105M-(05)/ASME SA 105/SA 105M-(08a) Section II Part A

Elen	rent (%wt)	Ladle	Product	EPCR	A CAS#	Elen	nent	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.19				Cr	Chrom	ium	0.09		√ 7	440-47-3
Mn	Manganese	0.88		✓	7439-96-5	Mo	Molybo	denum	0.02			
P	Phosphorous	0.007				v	Vanad:	ium	0.001			
S	Sulphur	0.020				Cb	Columb	oium	0.002			
Si	Silicon	0.20				C.E			0.37453			
Cu	Copper	0.18		1	7440-50-8	CuN:	CrMo		0.36			
Ni	Nickel	0.07		✓	7440-02-0	CrM)		0.10			
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Mechanical Te	esting	Other						
Test Lab	AFG	MILL	CMC					
Test Bar Size	SACRIFICIAL PIECE	MHC	3001382					
HBW	149 - 149							
Elg (%)	31							
RA (%)	60							
Tensile Specimen Size (in)	.248	•		•				
Tensile (ksi)	72.4	•						
Yield (ksi)	40.4							
Gauge Length	1	•						
		•						

Product compliant with NACE MR0175 / ISO 15156, latest edition and dimensions to ANSI B16.5 Product compliant with and meets all requirements of ASTM A105/ASME SA105, latest edition. 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. 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. Yield strength was determined using the 0.2% offset method.

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.

169509 Certification No.: Certification Date: 8/10/2009

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