

Material Test Report

Heat Code: HKM

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

ISO 9001:2008 Certified

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

PLESA ANAHUAC Y CIAS

SA DE CV AV. VALLE DE LAS

ALAMEDAS 66-0

PO: 8671 Item Code: 0302400100-0020F

Sales Order: 76145

Line: 9

Supplier: CMC

Qty Shipped: 30

54940 TULTITLAN, EDO, MEX

Item Desc: FLG 04.00 0300 SO RF

Supplier Heat: 3014929

Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A

Elen	nent (%wt)	Ladie	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.19				Cr Chi	romium	0.12		√ 7.	440-47-3
Mn	Manganese	1.06		✓ ·	7439-96-5	Mo Mol	Lybdenum	0.03			
P	Phosphorous	0.011				V Var	nadium	0.002			
S	Sulphur	0.019				Cb Col	lumbium	0.001			
Si	Silicon	0.24				C.E.		0.42			
Cu	Copper	0.28		✓ ·	7440-50-8	CuNiCrM	fo	0.518			
Ni	Nickel	1 0.09 ✓ 7440-02-0		CrMo		0.148					
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Mechanical T	esting	0	ther
Test Lab	AFG	MILL	CMC-TEXAS
Test Bar Size	Test Piece	мнс	3014929
HBW	163 - 163	Country of Origin	USA (US)
Elg (%)	31.0	<u> </u>	
RA (%)	59.0	:	
Tensile Specimen Size (in)	.247		
Tensile (ksi)	81.2		
Yield (ksi)	47.4		
Gauge Length	1		
		<u>:</u>	
		<u>:</u>	
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Product compliant with NACE MR0175, latest edition and dimensions to ASME B16.5 Product compliant with and meets all requirements of ASTM Al05/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. No weld repair performed on this product. Product compliant with NACE MR0103, latest edition.

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 EPCRÁ Section 313.

Certification No.:

187836

Certification Date:

8/12/2010

Nicholas Tepovich - Metallurgic Lab Manager

Vieldales Jepa

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