

Material Test Report

Heat Code: HMV

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:
 8379
 Sales Order:
 75369
 Line:
 2

 Item Code:
 0156400100-0020F
 Qty Shipped:
 20

Item Desc: FLG 04.00 0150 TH RF

54940 TULTITLAN, EDO, MEX Supplier: CMC Supplier Heat: 3016004

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

Eler	nent (%wt)	Ladie	Product	EPCR	A CAS#	Elen	nent	(%wt)	Ladie	Product	EPCRA	CAS#
С	Carbon	0.19				Cr	Chrom	ium	0.08		√ 7	440-47-3
Mn	Manganese	1.09		✓	7439-96-5	Мо	Molybe	denum	0.02			
P	Phosphorous	0.008				v	Vanad:	ium	0.002			
S	Sulphur	0.014				Cb	Columb	bium	0.002			
Si	Silicon	0.25				C.E			0.41			
Cu	Copper	0.19		✓	7440-50-8	CuN	iCrMo		0.36			
Ni	Nickel	0.07		✓	7440-02-0	CrMe	5		0.1			
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Mechanical To	esting		Other
Test Lab	AFG	WILL	CMC-TEXAS
Test Bar Size	Sacrificial Piece	мнс	3016004
HBW	163 - 163	Country of Origin	USA
Elg (%)	29.0	EF	Y
RA (%)	60.0	Fully Killed	Y
Tensile Specimen Size (in)	0.250	•	
Tensile (ksi)	81.2	•	
Yield (ksi)	46.5		
Gauge Length	1		
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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 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.
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 EPCRA Section 313.

Certification No.:

187190

Certification Date:

8/3/2010

Nicholas Tepovich - Metallurgic Lab Manager

Nielales Lepare

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