

## **Material Test Report**

Heat Code: HJJ

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

ISO 9001:2000 Certified

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

PLESA ANAHUAC Y CIAS

SA DE CV AV. VALLE DE LAS

ALAMEDAS 66-0

54940 TULTITLAN, EDO, MEX

PO: 8091

Item Code: 0151400102-0020F

Sales Order: 74553

Line: 5

Qty Shipped: 15

Item Desc: FLG 04.00 0150 WN RF XH

Supplier: CMC

Supplier Heat: 3014065

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

Eleme	nt (%wt)	Ladie	Product	EPCR	A CAS#	Element	(%wt)	Ladie	Product	EPCRA	CAS#
	arbon	0.18				Cr Chrom	ium	0.09		✓ 7:	440-47-3
	fangan <del>o</del> se	1.03		✓	7439-96-5	Mo Molyb	denum	0.02			
	hosphorous	0.008				V Vanad	lium	0.002			
	Sulphur	0.015				Cb Colum	muidm	0.002			
-	ilicon	0.21				C.E.		0.39			
	Copper	0.19		✓	7440-50-8	CuNiCrMo	-	0.40			
	lckel	0.10		✓	7440-02-0	CrMo		0.11			
						:					
						•			•		

Mechanical Te	esting		Other			
Test Lab Test Bar Size HBW Elg (%) RA (%) Tensile Specimen Size (in) Tensile (ksi) Yield (ksi) Gauge Length	AFG Test Piece 156 - 156 33 64 .249 77.3 43.2	MILL MHC EF Fully Killed PLEASA ANAHUAC Y CONTROL DI	15			
		FECHA 18 UC FIRMA E.R.	IIZ			

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.:

182192

Certification Date:

4/30/2010

Violadas Tapare

Nicholas Tepovich - Metallurgic Lab Manager