

SA DE CV AV. VALLE DE LAS

Material Test Report

Heat Code: GUL

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015 Sales: (713) 868-4421 Fax: (713) 455-8366

Line: 16

ISO 9001:2000 Certified

PLESA ANAHUAC Y CIAS PO: 6947 Sales Order: 71161

ALAMEDAS 66-0 | Item Desc: FLG 06.00 0150 WN RF XH

54940 TULTITLAN, EDO, MEX Supplier: CMC Supplier Heat: 3006910

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

Elen	nent (%wt)	Ladle	Product	EPCRA CAS#	Element (%wt)	Ladle	Product	EPCRA CAS#
С	Carbon	0.19	,		Cr Chromium	0.08		√ 7440-47-3
Mn	Manganese	0.89		√ 7439~96~5	Mo Molybdenum	0.04		
Р	Phosphorous	0,005			V Vanadium	0.003		
S	Sulphur	0.020			Cb Columbium	0.005		
Si	Silicon	0.24			C.E.	0.37		
Cu	Copper	0.22		√ 7440-50-8	CuNiCrMo	0.44		
Ni	Nickel	0.10		√ 7440-02-0	CrMo	0.12		

Mechanical Te	sting	Other			
Test Lab	AFG	MILL	CMC		
Test Bar Size	Sacrificial Forging	MHC	3006910		
HBW	156 - 156	VD	Y		
Elg (%)	33.0	EF	Y		
RA (%)	51.0	Fully Killed	Y		
Tensile Specimen Size (in)	.491				
Tensile (ksi)	76.9				
Yield (ksi)	46.9				
Gauge Length	2				

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.

Certification No.:

170518

Certification Date:

9/1/2009

Nicholas Tepovich - Metallurgic Lab Manager