

Material Test Report

Heat Code: GGN

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

PO: 5526 Item Code: 0152400100-0020F

Sales Order: 67635

Line: 8

ALAMEDAS 66-0

Item Desc: FLG 04.00 0150 SO RF

Qty Shipped: 120 A105

NHT COFFR

54940 TULTITLAN, EDO MEX

Supplier: CMC

Supplier Heat: 462685

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

Elen	nent (%wt)	Ladle	Product	EPCF	LA CAS#	Ele	nent	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon		0.19				Cr	Chro	nium	0.17		1	440-47-3
Mn	Manganese		0.85		1	7439-96-5	Mo	Moly	odenum	0.040			
P	Phosphoro	us	0.009				v	Vana	dium	0.003			
S	Sulphur		0.008				Cb	Colu	mbium	0.001			
Si	Silicon		0.23				C.E			0.400			
Cu	Copper		0.27		✓	7440-50-8	CuN	iCrMo		0.60			
Ni	Nickel		0.12		✓	7440-02-0	CrM	О		0.21			

Mechanic	al
Test Lab	AFG
Test Bar Size	SACRIFICIAL PIECE
HBW	156-156
Elg (%)	37.0
RA (%)	66.0
Tensile Specimen Size (in)	0.247
Tensile (ksi)	74.1
Yield (ksi)	42.3
Gauge Length	1.00

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.

Chemical Analysis results shown are actual. Forgings are capable of passing No Weld repair performed. 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.:

155511

Certification Date:

12/10/2008

Nicholas Tepovich - Metallurgic Lab Manager

Vielalas Tepare

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