## Coffer®

## **Material Test Report**

Heat Code: GGG

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
 PO: 5526
 Sales Order: 67635
 Line: 1

 SA DE CV AV. VALLE DE LAS
 Item Code: 0153400100-0020F
 Qty Shipped: 30

 ALAMEDAS 66-0
 Item Desc: FLG 04.00 0150 BL RF
 A105 NHT COFFR

 54940 TULTITLAN, EDO MEX
 Supplier: CMC
 Supplier Heat: 3006182

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

Elen	nent (%wt)	Ladie	Product	EPCR	A CAS	# 1	ler	nent	(%wt)	Ladie	Product	EPCR/	CAS#
С	Carbon	0.19					r	Chrom:	ium	0.08		1	7440-47-3
Mn	Manganese	0.94		. 🗸	7439-96	6-5 1	10	Molybo	denum	0.016			
P	Phosphorous	0.009					7	Vanad:	ium	0.002			
S	Sulphur	0.018					ď	Columb	oium	0.001			
Si	Silicon	0.20				- :	:.E			0.384			
Cu	Copper	0.21		1	7440-50	0-8 :	uN:	iCrMo		0.37			
Ni	Nickel	0.06		✓	7440-02	2-0 :	rMe	D		0.10			
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	Mechanica	al
Test Lab		AFG
Test Bar Size		SACRIFICIAL PIECE
нвш		156-156
Elg (%)		37.0
RA (%)		60.0
Tensile Specimen Size	(in)	0.245
Tensile (ksi)		78.5
Yield (ksi)		43.0
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.

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.:

155517

Certification Date:

12/10/2008

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

Violadas Leparal

Nicholas Tepovich - Metallurgic Lab Manager