

## **Material Test Report**

Heat Code: A-2550

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

Sales Order: 62636

Line: 14

SA DE CV AV. VALLE DE LAS

Item Code: 0153910100-0020f

Qty Shipped: 15

ALAMEDAS 66-0

Item Desc: FLG 10.00 0150 BL RF

A105 NHT COFFR

54940 TULTITLAN, EDO MEX

Supplier: MF RINGS

Supplier Heat: A-2550

Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04, Melt Practice EF

PO: 3815

Elen	nent (%wt)	Ladle	Product	EPCRA	CAS#	Element (%wt)	Ladle	Product	EPCRA CAS#
С	Carbon	0.19				Cr Chromium	0.00		✓ 7440-47-3
Mn	Manganese	0.86		✓ 74	139-96-5	Mo Molybdenum	0.000		
P	Phosphorous	0.030				V Vanadium	0.000		
S	Sulphur	0.009				Cb Columbium	0.000		
Si	Silicon	0.29				C.E.	0.333		
Cu	Copper	0.00		<b>√</b> 74	140-50-8	CuNiCrMo	0.00		
Ni	Nickel	0.00		• V 74	140-02-0	CrMo	0.00		

Mechanica Test Lab		Other
	MF RINGS	EF Y
Test Bar Size	SACRIFICIAL PIECE	
WВИ	153-153	
Elg (%)	30.4	
RA (%)	59.9	
Tensile Specimen Size (in)	0.250	
Tensile (ksi)	74.7	
Yield (ksi)	45.3	
Gauge Length	2.00	

Material on this report is certified to NACE MR-01-75 and DIMS. to ANSI B16.5 Product compliant with NACE MR0175, latest edition.

Product compliant with and meets all requirements of ASTM A105/ASME SA105-05.

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.:

131284

Certification Date:

12/11/2007

Kevin Papich - Tech. Svcs. Manager

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