



# Material Test Report

Heat Code: ADY

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: 5393	Sales Order: 67243	Line: 6
SA DE CV AV. VALLE DE LAS	Item Code: 0156400100-0020F	Qty Shipped: 6	
ALAMEDAS 66-0	Item Desc: FIG 04.00 0150 TH RF	A105	NHT COFER
54940 TULTITLAN, EDO MEX	Supplier: CMC	Supplier Heat: 3002423	

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

Element	(%wt)	Ladle	Product	EPCRA CAS#	Element	(%wt)	Ladle	Product	EPCRA CAS#
C	Carbon	0.19			Cr	Chromium	0.08		7440-47-3
Mn	Manganese	0.89		7439-96-5	Mo	Molybdenum	0.037		
P	Phosphorous	0.007			V	Vanadium	0.001		
S	Sulphur	0.017			Cb	Columbium	0.002		
Si	Silicon	0.18			C.E.		0.384		
Cu	Copper	0.22		7440-50-8	CuNiCrMo		0.45		
Ni	Nickel	0.11		7440-02-0	CrMo		0.12		

Mechanical		Other	
Test Lab	AFG	Country of Origin	USA (US)
Test Bar Size	SACRIFICIAL PIECE		Y
HBW	156-156		
ELg (%)	36.0		
RA (%)	62.0		
Tensile Specimen Size (in)	0.245		
Tensile (ksi)	75.2		
Yield (ksi)	44.0		
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 1980) 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.: 153964

Certification Date: 11/12/2008

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

Nicholas Tepovich - Metallurgic Lab Manager