

Material Test Report

Heat Code: XZX

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 ALAMEDAS 66-0

PO: 3050 Item Code: 0303300100-0020F

Sales Order: 60057 Line: 3 Qty Shipped: 10

Item Desc: FLG 03.00 0300 BL RF

NHT COFFR A105

Supplier: CMC 54940 TULTITLAN, EDO MEX

Supplier Heat: 255222

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

Element	(%wt)	Ladle	Product	EPCR	A CAS#	Element (%w	t) Ladle	Product	EPCRA CAS#
C Carbo	on	0.20				Cr Chromium	0.10		√ 7440-47-3
Mn Manga	anese	0.93		✓	7439-96-5	: Mo Molybdenum	0.014		
P Phosp	phorous	0.012				. V Vanadium	0.002		
S Sulph	nur	0.015				Cb Columbium	0.002		
Si Silio	con	0.19				C.E.	0.403		
Cu Coppe	er	0.28		✓	7440-50-8	CuNiCrMo	0.48		
Ni Nicke	el	0.09		✓	7440-02-0	CrMo	0.11		
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N	Mechanical	Other
Test Lab	AFG	Country of Origin USA (US)
Test Bar Size	SACRIFICIAL PIECE	EF Y
HBW	167-174	
Elg (%)	35.0	
RA (%)	64.0	
Tensile Specimen Size (i	in) 0.250	
Tensile (ksi)	80.6	
Yield (ksi)	46.5	
Gauge Length	1.00	

Product compliant with NACE MRO175, 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.:

119662

Certification Date: 6/14/2007

Kevin Papich - Tech. Svcs. Manager

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