

Material Test Report

Heat Code: YVU

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: 4871

Item Code: 0152910100-0020F Item Desc: FLG 10.00 0150 SO RF

Sales Order: 65826

Qty Shipped: 30

NHT COFFR A105 Supplier Heat: J73856

54940 TULTITLAN, EDO MEX Spec: ASME SA-105/SA-105M 2004 Section II/ASTM A105/A105M-03

Supplier: CMC

Element	(%wt)	Ladie	Product	EPCR	A CAS#	Element (%wt)	Ladle	Product	EPCRA	CAS#
C Carbo		0.20				: Cr Chromium	0.08		1 74	40-47-3
Mn Manga		0.84		1	7439-96-5	Mo Molybdenum	0.023			
	horous	0.008				V Vanadium	0.002			
S Sulpt		0.022				Cb Columbium	0.001			
Si Silio		0.23				C.E.	0.382			
Cu Coppe		0.23		1	7440-50-8	CuNiCrMo	0.42			
Ni Nicke		0.09		1	7440-02-0	CrMo	0.10			

Mechanical			Other
Test Lab	AFG	Country of Origin	USA (US)
Test Bar Size	SACRIFICIAL PIECE	EF	Y
нвм	156-156		
Elg (1)	32.0		
RA (%)	59.0		
Tensile Specimen Size (in)	0.497		
Tensile (ksi)	76.9		
Yield (ksi)	44.6		
Gauge Length	2.00		
		T	
		14	

Product compliant with NACE MRO175, latest edition.

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 atone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.:

146165

Certification Date:

7/18/2008

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

Puneet Saggar - Plant Metallurgist