

## **Material Test Report**

Heat Code: AWT

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

Sales Order: 65826 Line: 5 Item Code: 0156200100-0020F Qty Shipped: 100 Item Desc: FLG 02.00 0150 TH RF A105 NHT COFFR

ALAMEDAS 66-0 54940 TULTITLAN, EDO MEX

Supplier: CMC Supplier Heat: 3002793

Spec: ASME SA-105/SA-105M 2004 Section II/ASTM A105/A105M-03

PO: 4871

Elemen	t (%wt)	Ladie	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CASS
C Ca	rbon	0.20				Cr Chromi	um	0.10		1 7	440-47-
Mn Ma	nganese	0.92		1 7	439-96-5	Mo Molybo	ienum	0.022			
P Ph	osphorous	0.010				V Vanadi	um	0.001			
S Su	lphur	0.020				Cb Columb	ium	0.002			
Si 51	licon	0.20				C.E.		0.398			
Cu co	pper	0.22		1	440-50-8	CunicrMo		0.42			
	ckel	0.08		1	440-02-0	CrMo		0.12			

Mechanics	ı	Other				
Test Lab	AFG	Country of Origin	USA (US)			
Test Bar Size	SACRIFICIAL PIECE	EF	Y			
HBW	156-156					
£1g (%)	31.0					
RA (%)	63.0					
Tensile Specimen Size (in)	0.246					
Tensile (ksi)	77.2					
Yield (ksi)	43.4					
Gauge Length	1.00					

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

Certification No.:

146172

Certification Date: 7/18/2008

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

Puneet Saggar - Plant Metallurgist