

Material Test Report

Heat Code: AVH

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: 0301400101-0020F Item Desc: FLG 04.00 0300 WN RF STD A105

Sales Order: 65826 Qty Shipped: 75

NHT COFFR

54940 TULTITLAN, EDO MEX

Supplier: CMC

Supplier Heat: 3002106

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

Elem	ent	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon		0.21				Cr Chroni	שני	0.15		1 7	440-47-3
Mn	Mangan	ese	0.94		1 .	7439-96-5	Mo Molybo	denum	0.045			
P	Phosph	orous	0.009				V Vanadi	um	0.002			
s	Sulphu	r	0.012				Cb Columb	oium .	0.003			
Si	Silico	n	0.23				C.E.		0.430			
Cu	Copper		0.21		1	7440-50-8	CunicrMo		0.55			
Ni	Nickel		0.15		1	7440-02-0	CrMo		0.19			

Mechanica	1	Other				
Test Lab	AFG	Country of Origin USA (US)				
Test Bar Size	SACRIFICIAL PIECE					
нви	163-163					
Elg (%)	34.0					
RA (%)	62.0					
Tensile Specimen Size (1n)	0.250					
Tensile (ksi)	80.6					
Yield (ksi)	46.8					
Gauge Length	1.00					

Product compliant with NACE MRO175, latest edition. Product compliant with and meets all requirements of ASTM Al05/ASME SAl05, latest edition.

Chemical Analysis results shown are actual. Forgings are capable of passing No Weld repair performed. 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 Resulthorization 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.:

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