

Material Test Report

Heat Code: VST

An Ameri-Forge Group Company 13770 Industrial Rd., Houston, TX 77015

ISO 9001:2000 Certified

Item Desc: FLG 04.00 0300 WN RF XH

Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS

Sales Order: 60057

Line: 17

ALAMEDAS 66-0

Item Code: 0301400102-0020F

Qty Shipped: 50 A105 NHT COFFR

54940 TULTITLAN, EDO MEX

Supplier: KOPPEL

Supplier Heat: 455188

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

PO: 3050

Elem	nent (%wt)	Ladle	Product	EPCF	RA CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.18				Cr Chron	nium	0.13		√ 7	440-47-3
Mn	Manganese	1.00		✓	7439-96-5	Mo Molyh	odenum	0.040			
P	Phosphorous	0.008				V Vanad	lium	0.004			
S	Sulphur	0.008				Cb Colum	nbium	0.001			
Si	Silicon	0.20				C.E.		0.402			
Cu	Copper	0.20		\checkmark	7440-50-8	CuNiCrMo		0.48			
Ni	Nickel	0.11		✓	7440-02-0	CrMo		0.17			
						:					

Mechanic	al	Other						
Test Lab	AFG	Country of Origin		USA (US)				
Test Bar Size	SACRIFICIAL PIECE	EF		Y				
HBW	146-152							
Elg (%)	30.0							
RA (%)	69.0							
Tensile Specimen Size (in)	0.248							
Tensile (ksi)	73.4							
Yield (ksi)	42.0							
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.:

119656

Certification Date:

6/14/2007