

Material Test Report

Heat Code: HHJ -

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015 Sales: (713) 868-4421 Fax: (713) 455-8366

ISO 9001:2000 Certified

 PLESA ANAHUAC Y CIAS
 PO: 8112
 Sales Order: 74602
 Line: 1

 SA DE CV AV. VALLE DE LAS
 Item Code: 0153400100-0020F
 Qty Shipped: 10

 ALAMEDAS 66-0
 Item Desc: FLG 04.00 0150 BL RF

 54940 TULTITLAN, EDO, MEX
 Supplier: CMC
 Supplier Heat: 3012800

Spec: ASTM A10				Element (%wt)	Ladie	Product	EPCRA	CAS#
Carbon In Manganese Phosphorous Sulphur Si Silicon Cu Copper Ni Nickel	0.19 0.90 0.007 0.017 0.23 0.24 0.09	Product	✓ 7440-50-8 ✓ 7440-02-0	Cr Chromium Mo Molybdenum V Vanadium Cb Columbium C.E. CUNICTMO	0.06 0.02 0.002 0.001 0.38 0.41 0.08		√ 7	440-47-3

Mechanical Te Test Lab Test Bar Size	AFG Test Piece 163 - 163	Other MILL CMC-TEXAS MHC 3012800 EF Y
HBW Elg (%) RA (%) Tensile Specimen Size (in) Tensile (ksi)	30.0 62.0 .248 80.4	Fully Killed Y
Yield (ksi) Gauge Length	49.2 1	PLEASA ANAHUAC Y CIAS, S.A. DE C.V. CONTROL DE CALIDAD
		FECHA 10 Uay 7010
		FIRMA E RUIZ

Product compliant with NACE MR0175, latest edition and dimensions to ASME B16.5
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.
No weld repair performed on this product.
Product compliant with NACE MR0103, latest edition.

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 It) of the Superfund Amendments and Reauthorization Act of 1989) 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.:

182185

Certification Date:

4/30/2010

Nicholas Tepovich - Metallurgic Lab Manager

Violadas Lepane