

Material Test Report

Heat Code: HUD

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

ISO 9001:2008 Certified

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

PLESA ANAHUAC Y CIAS

SA DE CV AV. VALLE DE LAS

ALAMEDAS 66-0

54940 TULTITLAN, EDO, MEX

PO: 9216

Supplier: CMC

Sales Order: 89436

Line: 7

Item Code: 0151600101-0020F

Qty Shipped: 50

Supplier Heat: 3017440

Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A

Item Desc: FLG 06.00 0150 WN RF STD

Elen	nent (%wt)	Ladle	Product	EPCRA CAS#	Element (%wt)	Ladle	Product	EPCRA CAS#
С	Carbon	0.18			Cr Chromium	0.06		✓ 7440-47-3
Mn	Manganese	1.05		√ 7439-96-5	Mo Molybdenum	0.02		
P	Phosphorous	0.005			V Vanadium	0.003		
S	Sulphur	0.023			Cb Columbium	0.001		
Si	Silicon	0.23			C.E.	0.39		
Cu	Copper	0.15		✓ 7440-50-8	CuNiCrMo	0.313		
Ni	Nickel	0.08		✓ 7440-02-0	CrMo	0.083		
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Mechanical T	esting		Other
Test Lab	AFG	MILL	CMC-TEXAS
Test Bar Size	TEST PIECE	MHC	3017440
HBW	149 ~ 149	EF	Y
Elg (%)	36.0	Fully Killed	Y
RA (%)	62.0		
Tensile Specimen Size (in)	.248		
Tensile (ksi)	74.6		
Yield (ksi)	43.9		
Gauge Length	1		

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 and meets all requirements of ASTM A105/

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 Reauthonization 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 EPCRÁ Section 313.

Certification No.:

193004

Certification Date:

10/25/2010

Michaeles Tepare

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

Nicholas Tepovich - Metallurgic Lab Manager