

Material Test Report

Heat Code: HZO

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

ISO 9001:2008 Certified

PLESA ANAHUAC Y CIAS PO: 9545

Sales Order: 90421 Line: 12 Qty Shipped:

SA DE CV AV. VALLE DE LAS ALAMEDAS 66-0

Item Code: 0601300101-0021F

Item Desc: FLG 03.00 0600 WN RF STD

54940 TULTITLAN, EDO, MEX Supplier: CMC

Supplier Heat: 3019785 Spec: ASTM A105/A105N-(10)/ASME SA 105/SA 105N-(08a) Section II Part A - Normalized

Elen	nent (%wt)	Ladie	Product	EPCR.	A CAS#	Elen	ent	(%wt)	Ladie	Product	EPCR	A CAS#
С	Carbon	0.19				Ni	Nickel		0.09		✓	7440-02-0
Mn	Manganese	1.05		✓	7439-96-5	Cr	Chromi	.um	0.05		✓	7440-47-3
Þ	Phosphorous	0.006				Mo	Molybo	lenum	0.024			
\$	Sulphur	0.017				v	Vanadi	.um	0.003			
Si	Silicon	0.23				СЪ	Columb	ium	0.001			
Cu	Copper	0.19		✓	7440-50-8	C.E.			0.40			
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						•						

Mechanical T	esting	Heat Treat				
Test Lab	AFG	Norm. Temp. (F)	1675			
Test Bar Size	Sacrificial Piece	Norm. (Hrs)	4.0			
HBW	143 - 143	Norm. Cooling Type	AIR			
Elg (%)	31.0	Norm. Location	AFG			
RA (%)	63.0	•				
Tensile Specimen Size (in)	.248	O1	ther			
Tensile (ksi)	75.6	MILL	CMC-TEXAS			
Yield (ksi)	45.5	мнс	3019785			
Gauge Length	1	EF	Y			
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Product compliant with NACE MR0175, latest edition and dimensions to ANSI B16.5 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 welding performed.

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

Certification No.:

196506

Certification Date:

12/16/2010

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

Nicholas Tepovich - Metallurgic Lab Manager