

Material Test Report

Heat Code: HSW

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

ISO 9001:2008 Certified

Line: 14

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

ALAMEDAS 66-0

PO: 8671 Sales Order: 76145 Item Code: 0151300101-0020F Qty Shipped: 100

Item Desc: FLG 03.00 0150 WN RF STD

54940 TULTITLAN, EDO, MEX Supplier: CMC Supplier Heat: 3017426

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

Elen	nent (%wt)	Ladie	Product	EPCR/	CAS#	Elen	ient	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.20				Cr	Chromi	.um	0.05		✓ 7	440-47-3
Mn	Manganese	1.05		✓	7439-96-5	Мо	Molybo	lenum	0.02			
P	Phosphorous	0.006				v	Vanadi	.um	0.003			
S	Sulphur	0.020				Cb	Columb	oium	0.001			
Si	Silicon	0.24				C.E			0.41			
Cu	Copper	0.16		✓	7440-50-8	CuNiCrMo		0.301				
Ní	Nickel 0.07			✓	7440-02-0	CrMo		0.071				
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Mechanical To	esting	C	Other
Test Lab	AFG	MILL	CMC-TEXAS
Test Bar Size	Test Piece	мнс	3017426
нвw	154 - 154	Country of Origin	USA (US)
Elg (%)	29.0	EF	Y
RA (%)	61.0	Fully Killed	Y
Tensile Specimen Size (in)	.252		
Tensile (ksi)	77.8	<u>:</u>	
Yield (ksi)	44.4		
Gauge Length	1		
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Product compliant with NACE MR0175, latest edition and dimensions to ASME B16.5 Product compliant with and meets all requirements of ASTM Al05/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 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 EPCRÁ Section 313.

Certification No.: 187822 Certification Date: 8/12/2010

Nicholas Tepovich - Metallurgic Lab Manager

Violades Lepa

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