

Material Test Report

Heat Code: AYG

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

ISO 9001:2000 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: 4970

Sales Order: 66234

Line: 9

Item Code: 0151300101-0020F

Item Desc: FLG 03.00 0150 WN RF STD A105

Qty Shipped: 150

Supplier: CMC

NHT COFFR

Supplier Heat: 3003136

Spec: ASME SA-105/SA-105M 2004 Section II/ASTM A105/A105M-03

C Carbon 0.19	Elen	nent (%wt)	Ladie	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
Mn Manganese	C	Carbon	0.19	,			Or Chromi					
P Phospherous	Mn	Manganese	0.89			7439-96-5					• ,	440-47-3
S Sulphur 0.019 Cb Columbium 0.001 Si Silicon 0.20 C.E. 0.391 Cu Copper 0.25	P	Phospho: ous	0.008									
Si Silicon 0.20 C.E. 0.391 Cu Copper 0.25	3	Sulphur										
Cu Capper 0.25	Si	Silicon		•.			:	Lum				
Ni Nickel 0.12 Cunicrmo 0.51	Cu				. , .				0.391			
Nickel 7440-02-0 CrMo 0.14							CuNiCrMo		0.51			
		NICK61	0.12		/ 7	7440-02-0	CrMo		0.14			
							:					

Mechanical		Other				
Test Lab	AFG	Country of Origin	USA (US)			
Test Bar Size HBW	SACRIFICIAL PIECE	EF	Υ			
Elg (%)	156-156					
RA (%)	36.0					
Censile Specimen Size (in)	66.0					
Tensile (ksi)	0.246 75.9					
(ield (ksi)	43.1					
Sauge Length	1.00					
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Product compliant with NACE MRO175, latest edition. Product compliant with and meets all requirements of ASTM Al05/ASME SAl05, 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 materia supplied under this order is certified to be free of mercury contamination and no mercury bearing equipment wis 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.:

148146

Certification Date:

8/20/2008

This report is issued in compliance with the requirements of EN10204 3 1 / ISO 10474 3 1.b

Puneet Saggar - Plant Metallurgist