

Material Test Report

Heat Code: ZSG

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

Line: 15

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

Sales Order: 63247 PO: 3817 Item Code: 0151912101-0020F

Qty Shipped: 15

Item Desc: FLG 12.00 0150 WN RF STD A105

NHT COFFR Supplier Heat: 260608

Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04, Melt Practice EF

Supplier: CMC

t (%wt)	Ladie	Product	EPCR	A CAS#	Elen	nent	(%wt)	Ladle	Product	EPCRA	CAS#
rbon	0.19				Cr	Chromi	um	0.08		√	7440-47-3
nganese	0.92		✓	7439-96-5	Mo	Molybd	enum	0.018			
osphorous	0.009				v	Vanadi	um	0.000			
lphur	0.020				Cb	Columb	ium	0.002			
licon	0.18				C.E			0.384			
pper	0.24		✓	7440-50-8	CuN	iCrMo		0.41			
ckel	0.07		x	7440-02-0	CrM	•		0.10			
	rbon nganese osphorous lphur licon pper	rbon 0.19 nganese 0.92 osphorous 0.009 lphur 0.020 licon 0.18 pper 0.24	rbon 0.19 nganese 0.92 osphorous 0.009 lphur 0.020 licon 0.18 pper 0.24	rbon 0.19 nganese 0.92 ✓ osphorous 0.009 lphur 0.020 licon 0.18 pper 0.24 ✓	rbon 0.19 nganese 0.92 ✓ 7439-96-5 osphorous 0.009 lphur 0.020 licon 0.18 pper 0.24 ✓ 7440-50-8	rbon 0.19 nganese 0.92 ✓ 7439-96-5 Mo osphorous 0.009 lphur 0.020 licon 0.18 pper 0.24 ✓ 7440-50-8 CuN:	rbon 0.19 nganese 0.92	rbon 0.19 nganese 0.92	rbon 0.19 nganese 0.92	rbon 0.19 nganese 0.92	rbon 0.19 nganese 0.92

al	Other					
AFG	Country of Origin	USA (US)				
SACRIFICIAL PIECE	EF	Y				
149-149						
34.0						
63.0	•					
0.501						
75.5						
44.7						
2.00						
	,					
	•					
	AFG SACRIFICIAL PIECE 149-149 34.0 63.0 0.501 75.5 44.7	AFG Country of Origin SACRIFICIAL PIECE EF 149-149 34.0 63.0 0.501 75.5 44.7				

Material on this reportis certified to NACE MR-01-75 and DIMS. to ANSI B16.5 Product compliant with NACE MRO175, latest edition.

Product compliant with and meets all requirements of ASTM A105/ASME SA105-05. 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.

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.:

134581

Certification Date:

2/7/2008

Puneet Saggar - Plant Metallurgist

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