

Material Test Report

Heat Code: VCR

ISO 9001:2008 Certified

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

PLESA STEEL INC.	PO: 42 Sales Order: 116720 Line:					: 4		
5100 WESTHEIMER ROAD	Item Code: 0152920100-0020F Qty Shipped: 3							
SUITE 200	Item Desc: FLG 20.00 0150 SO RF							
Houston, TX 77056	Supplier:							
Spec: ASTM A105/A105M-(12)/ASM		••						
Element (%wt) Ladle Product	EPCRA CAS# E	lement	(%wt)	Ladle	Product	EPCRA	CAS#	
C Carbon 0.18	C	r Chromiu	m	0.09		✓ 7	440-47-3	
Mn Manganese 1.08	✓ 7439-96-5 M	-	num	0.04				
P Phosphorous 0.008	V	Vanadiu	m	0.004				
S Sulphur 0.002	•	b Columbi	um	0.002				
Si Silicon 0.26	· · · · · · · · · · · · · · · · · · ·	.E.		0.40				
Cu Copper 0.11		uNiCrMo		0.290				
Ni Nickel 0.05	✓ 7440-02-0 C	rMo		0.130				
Mechanical Testing		Other						
Test Lab AF	'G M	IHC			141	97		
Test Bar Size Sa	crificial Piece							
HBW 16	3 - 163							
Elg (%) 32								
RA (%) 68								
Tensile Specimen Size (in) .4	95							
Tensile (ksi) 76	.1							
	.4							
Gauge Length 2								
No Weld repair performed. Chemical Ar hydrostatic test compatible with the							strengt	
was determined using the .2% offset mercury contamination and no mercury	nethod. All material s	supplied u	under this	s order is	s certifie	d to be	free of	
in USA. No weld repair performed on this proc Product compliant with NACE MR0175 /	ISO 15156 latest edit		limensions	s to ANSI	B16.5 - 2	009		
Tensile Testing Per ASTM E8; Brinell	Hardness Per ASTM E1	0						

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.: 256653 Certification Date: 1/7/2013



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

Mandar Hingwe - Dir. of Quality and Metallurgy