

#9145

Sample Results

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin															
9145 (1544/6-03/14)	Unknown	Thursday January 30, 2014	4:19:42 PM	Measured															
Method Name	Method Version	Operator Name	Check Type	Check Status															
Fe-30-MO		SARA SAE	None	Not Used															
Grade Verification Name	Grade Verification Similarity	Correction Type	Type Corr Sample Name	Grade Search Name															
Grade Search Similarity	Type	Status	Outlier Removal																
	None	Not Used																	
Sample Name	Grade																		
9145 (1544/6-03/14)																			
C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co	Cu	Nb	Ti	V	W	Pb	Sn	As	Zr	
Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
1	0.022	0.13	0.42	0.007	<0.002	21.30	2.68	40.27	0.093	0.056	1.61	0.030	0.72	0.032	<0.040	0.013	0.003	<0.005	
Rep	0.022	0.13	0.42	0.007	<0.002	21.30	2.68	40.27	0.093	0.056	1.61	0.030	0.72	0.032	<0.040	0.013	0.003	<0.005	
Min Cal	0.006	0.005	0.004	0.003	0.002	0.005	0.003	0.005	0.003	0.005	0.002	0.005	0.0010	0.002	0.040	0.010	0.002	0.005	
Mean	0.022	0.13	0.42	0.007	<0.002	21.30	2.68	40.27	0.093	0.056	1.61	0.030	0.72	0.032	<0.077	0.013	0.003	<0.004	
Max Cal	3.00	5.04	18.12	0.18	0.30	36.00	10.20	55.2	6.24	21.60	7.44	3.60	3.60	12.00	7.32	0.13	0.27	0.13	
Ca	B	Fe																	
Conc	Conc	Conc																	
%	%	%																	
1	0.002	0.0007	32.57																
Rep	0.002	0.0007	32.57																
Min Cal	0.0005	0.0005	32.69																
Mean	0.002	0.0007	32.69																
Max Cal	0.016	0.025	32.69																

On 2-18-14
Dup 25

1/31/2014

Sample Results



M.D. Steels Pvt. Ltd.

Plot No. F- 669 , Phase - II

RIICO Industrial Area , Bhiwadi, Distt.- Alwar (Rajasthan) 301019

Phone +91 1493 512079/225495 Fax +91 01493 222483

Email: mdsteels@ gmail.com Website : www mdsteels.com

Customer : M/s Sara Sae Pvt. Ltd. UNIT - II A-2, Sara Industrial Estate Ltd. Chakrata Road, Rampur Dehradun - 248197 - Uttarakhand	T.C. No.	: M- 1444
	Dated	: 14.01.2014
	Heat No.	: 1544/A- 03 / 2014
	Date	: 03.01.2014

P.O. No. :..... Dated 20.12.2013

Specification : INC 825

Foundry identification : MD

Surface : Proof Machine

Casting Processed by Induction melting

Heat Treatment : Solution Annealed at 1150⁰ C, 1.30 Hours Soaking and water quenched.

CHEMICAL COMPOSITION %

Element	C	Si	Mn	Cr	Ni	Mo	S	Al	Cu	Ti	P
Minimum	-	-	-	19.50	38.000	2.500	-	-	1.500	0.60	-
Maximum	0.050	0.500	1.000	23.50	46.000	3.500	0.030	0.200	3.000	1.20	0.030
Actual	0.047	0.450	0.239	20.40	40.500	2.950	0.018	0.051	1.870	1.10	0.019

MECHANICAL PROPERTIES

	Y.S	UTS	EL%	Reductio	Charpy At ambient	Bend Tes	Hardness				
	Mpa	Mpa	GI= 50mm	Area %	Ambient temp.		HRB				
Min											
Max.											
Actual											

S. No.	Description	Item & Code	Qty.
1	Centrifugally Casted Rings Proof Machined Size OD 291 mm X ID 254 mm X H- 43 mm	BNT & IX708-R	30 Nos. (61 - 90)

Remarks : Visual Inspection Carried out and dimension checked and found Ok.

specification and was found to meet the requirements and also compliance to the purchase order.

Gopal Dass
Checked by

[Signature]
Approved by.



M. D. STEELS (P) LTD.

**F-669, Phase-II, Indl. Area
BHIWADI - 301 019.**

☎ : 01493 - 222483, 512079

su
M. Khan
Mar 25