



## METALLURGICAL TESTING CENTRE

( A Unit of BSL Castings Pvt. Ltd. )  
( NABL ACCREDITED LAB )

CERTIFICATE NO.  
T - 1452 & T - 1453

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## TEST REPORT

WORKS & OFFICE :  
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BSL/SPECTRO/5.10F-01/01/00

Issued to :	M/s. Sara Sae (P) Ltd. 7/1, Pritam Road, Unit - II Dehra Dun - 248001	Report No.	201811	D.O.T. :	03.09.2012
Sample Description. :	Sample No. - 8017, Heat No. - D-2572	Ref. No.	Nil	D.O.R. :	01.09.2012
				J.O. No. :	62444

## RESULTS

**Chemical Analysis** (Fe Base - SS)  
Protocol : ASTM E 1086:2008 (By O.E.S)

Sample ID; J.O.No. - 62444

Element	%
Carbon	0.056
Silicon	0.512
Sulphur	0.014
Phosphorus	0.033
Manganese	1.082
Nickel	10.05
Chromium	17.18
Molybdenum	2.084
Copper	0.417
Tungsten	0.056
Cobalt	0.185
# Niobium	0.033
# Titanium	0.012

Checked By

263,  
Sector-24,  
Faridabad  
Authorised Signatory  
( Q.M. / T.M. )

**Note :**

1. The result listed refer only to the tested samples and applicable parameters, Endorsement of product is neither inferred nor implied.
2. Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back.
3. \*Not Covered under NABL Scope.
4. This report can not be used as an evidence in a court of law.
5. Samples will be destroyed after 15 days.
6. Any Complaints about this report should be communicated within 7 days of issue of this report.
7. This report shall not be reproduced except in full, without the written permission of the Laboratory.
8. # Results found outside the range of NABL accredited scope.



**MATERIAL TEST CERTIFICATE**

TC NO-KSL-3821/12-13	Date : 07.09.2012	Customer : M/S SARA SEA' INDUSTRIES DEHRADUN
Heat No. D - 2572		

Specification:- AISI 316	P.O. No.:	Invoice No:
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SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	DIA 56 MM ROUND	100
	GRADE COLOUR CODE( PINK)	
	HEAT NO COLOUR CODE( WHITE)	

**CHEMICAL COMPOSITION**

PERCENT	C	Mn	Si	P	S	Cr	Ni	Mo	V	Ti	Cu	Al	
AS PER SPEC.	Min. (%)					16.00	10.00	2.00					
	Max. (%)	0.08	2.00	1.00	0.045	0.030	18.00	14.00	3.00				
Actual Value		0.060	1.26	0.44	0.033	0.027	16.21	10.10	2.12				

**HEAT TREATMENT**

Condition	Temp. C	Soaking Time Hrs.	Cooling Medium

**PHYSICAL PROPERTIES**

MECHANICAL PROPERTIES	Y.S. N/mm <sup>2</sup>	U.T.S. N/mm <sup>2</sup>	ELONG % GL mm	REDN IN AREA %	BEND	HARDNESS BHN	IMPACT (Joules)
AS PER SPEC.	Min.						
	Max.						
Actual Value							

We hereby certify that the items mentioned above have been tested and inspected in our presence and are found to be in accordance with the drawing, specifications, and purchase order.

**REMARK**

The Steel has been made by Electric Furnace which is fully killed by Al & Si. It has fine grain structure.

Sign of the Inspecting Officer

Sign of the Chief of Quality Control



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Ingots | Rolled Bars | Square Bars | Forged Bars | Flat Bars | Castings