

<b>Laboratory</b>	<b>Chemical Laboratory (H.R.), Jindal Stainless (Hisar) Limited, Hot Rolling Division, O.P. Jindal Marg, Hisar, Haryana</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>29.01.2016</b>
<b>Certificate Number</b>	<b>T-3256</b>	<b>Valid Until</b>	<b>01.01.2017</b>
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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I.</b>	<b>METALS &amp; ALLOYS</b>			
<b>1.</b>	<b>Stainless Steel</b>	Carbon	ASTM E 1086: 14 ASTM A 751: 14	0.007 % to 1.0 %
			ASTM E 1019: 11	0.0015 % to 0.82 %
		Manganese	ASTM E 1086: 14 ASTM A 751: 14	0.04 % to 14.0 %
		Sulphur	ASTM E 1086: 14 ASTM A 751: 14	0.001 % to 0.05 %
			ASTM E 1019: 11	0.0009 % to 0.035 %
		Phosphorous	ASTM E 1086: 14 ASTM A 751: 14	0.002 % to 0.10 %
		Silicon	ASTM E 1086: 14 ASTM A 751: 14	0.02 % to 1.30 %
		Nickel	ASTM E 1086: 14 ASTM A 751: 14	0.17 % to 25.0 %
		Chromium	ASTM E 1086: 14 ASTM A 751: 14	9.00 % to 26.0 %
		Molybdenum	ASTM E 1086: 14 ASTM A 751: 14	0.02 % to 4.50 %
		Copper	ASTM E 1086: 14 ASTM A 751: 14	0.012 % to 4.50 %
		Vanadium	ASTM E 1086: 14 ASTM A 751: 14	0.003 % to 0.80 %

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Stainless Steel	Nitrogen	ASTM E 1086: 14	0.0029 % to 0.2500 %
			ASTM A 751: 14	
			ASTM E 1019: 11	
		Titanium	ASTM E 1086: 14	0.001 % to 0.60 %
			ASTM A 751: 14	
		Cobalt	ASTM E 1086: 14	0.05 % to 0.50 %
			ASTM A 751: 14	
		Aluminum	ASTM E 1086: 14	0.001 % to 0.20 %
		ASTM A 751: 14		
	Niobium/ Columbium	ASTM E 1086: 14	0.003 % to 1.70 %	
		ASTM A 751: 14		
	Lead	ASTM E 1086: 14	0.0004 % to 0.018 %	
		ASTM A 751: 14		
	Tin	ASTM E 1086: 14	0.002 % to 0.04 %	
		ASTM A 751: 14		
	Tungsten	ASTM E 1086: 14	0.008 % to 0.15 %	
		ASTM A 751: 14		

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