



STEEL LIMITED

Vijayanagar Works, PO: Vidyanagar, Village : Tornagallu, Dist: Bellary, Karnataka-583275, INDIA

Regd. Office: JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai-400051.

MILL TEST CERTIFICATE (According to EN 10204 - 3.1)

TO,
DUFERCO S.A.
SWITZERLAND, 690000
CH

TC No 2016-17 / 0400603524 _ 80 / 7020004333

Date 01.04.2017

Product: Cold Rolled Annealed, Skinpassed & Oiled								Chemical Composition & Mechanical Properties												Bend Test	Hard HRB	Remarks
Cast/Heat No.	Coil No.	T	X	W	X	L	Net Wt.	Gross Wt.	C %	Mn %	S %	P %	Si %	Al %	N %	YS MPa	UTS MPa	EL %	Ra μm			
Specification : ASTM A_1008 CS_B		MIN	----->		-	-	-	-	-	-	-	-	-	-	-	140	-	30.00	0.70	-	-	-
		MAX	----->		0.1000	0.600	0.0350	0.030	-	-	1.0000	275	-	-	-	275	-	-	1.60	-	-	-
C350902	G349021000	0.910	X	1219.0	X	Coil	10.580	10.655	0.027	0.190	0.010	0.015	0.009	0.060	0.0040	235	349	45.60	0.95	50MM	Pass	51.00
C350902	G349022000	0.910	X	1219.0	X	Coil	10.645	10.730	0.027	0.190	0.010	0.015	0.009	0.060	0.0040	234	348	45.00	0.95	50MM	Pass	50.00
B350904	G352361000	0.910	X	1219.0	X	Coil	10.615	10.700	0.034	0.190	0.010	0.015	0.014	0.048	0.0035	234	355	45.30	1.55	50MM	Pass	50.00
B350336	G332682000	0.910	X	1219.0	X	Coil	10.215	10.300	0.035	0.200	0.008	0.017	0.014	0.050	0.0040	206	344	44.50	1.33	50MM	Pass	51.00
B350904	G352362000	0.910	X	1219.0	X	Coil	10.885	10.970	0.034	0.190	0.010	0.015	0.014	0.048	0.0035	234	355	45.30	1.55	50MM	Pass	50.00
B350904	G348842000	0.910	X	1219.0	X	Coil	10.245	10.325	0.034	0.190	0.010	0.015	0.014	0.048	0.0035	222	354	44.10	1.11	50MM	Pass	50.00
B350904	G348841000	0.910	X	1219.0	X	Coil	11.270	11.350	0.034	0.190	0.010	0.015	0.014	0.048	0.0035	222	354	44.10	1.11	50MM	Pass	50.00
B350336	G332681000	0.910	X	1219.0	X	Coil	11.265	11.360	0.035	0.200	0.008	0.017	0.014	0.050	0.0040	206	344	44.50	1.33	50MM	Pass	51.00
B350336	G339701000	0.910	X	1219.0	X	Coil	10.730	10.815	0.035	0.200	0.008	0.017	0.014	0.050	0.0040	233	360	41.90	0.97	50MM	Pass	51.00
B350336	G339702000	0.910	X	1219.0	X	Coil	10.815	10.900	0.035	0.200	0.008	0.017	0.014	0.050	0.0040	233	360	41.90	0.97	50MM	Pass	51.00
B350336	G332622000	0.910	X	1219.0	X	Coil	10.910	10.995	0.035	0.200	0.008	0.017	0.014	0.050	0.0040	237	360	41.80	1.17	50MM	Pass	53.00
B350336	G332621000	0.910	X	1219.0	X	Coil	10.715	10.795	0.035	0.200	0.008	0.017	0.014	0.050	0.0040	237	360	41.80	1.17	50MM	Pass	53.00
B350336	G331982000	0.910	X	1219.0	X	Coil	10.870	10.950	0.035	0.200	0.008	0.017	0.014	0.050	0.0040	243	353	41.00	1.14	50MM	Pass	53.00
C350902	G350152000	0.910	X	1219.0	X	Coil	10.845	10.920	0.027	0.190	0.010	0.015	0.009	0.060	0.0040	234	350	43.50	1.40	50MM	Pass	50.00
C350902	G350151000	0.910	X	1219.0	X	Coil	10.605	10.680	0.027	0.190	0.010	0.015	0.009	0.060	0.0040	234	350	43.50	1.40	50MM	Pass	50.00
B350336	G331981000	0.910	X	1219.0	X	Coil	10.665	10.740	0.035	0.200	0.008	0.017	0.014	0.050	0.0040	243	358	41.00	1.12	50MM	Pass	53.00



STEEL LIMITED

Vijayanagar Works, PO: Vidyanagar, Village : Tornagallu, Dist: Bellary, Karnataka-583275, INDIA

Regd. Office: JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai-400051.

MILL TEST CERTIFICATE (According to EN 10204 - 3.1)

TO,
DUFERCO S.A.
SWITZERLAND, 690000
CH

TC No 2016-17 / 0400603524 _ 80 / 7020004333

Date 01.04.2017

Total Weight in Metric Tonnes	171.875	173.185
Total no of Batches	16	

We hereby certify that the material described herein have been tested and inspected with satisfactory results in accordance with the requirements of the above specification.

This is to certify that the above mentioned product produced & supplied by JSW Steel Ltd do not contain any radio active element higher than the natural level

The product or packing material does not contain any hazardous substances as per ROHS

<p>Commercial Invoice : 7020004333</p> <p>Sales Contract Number : 4626</p> <p>Product: : PRIME COLD ROLLED STEEL COILS, SKINPASSED, MATTE FINISH, OILED with Trimmed Edge</p> <p>Process Route : BOF-LHF-CCM-HSM-PLTCM-CAL- APL</p>	<p>Legend: BOF = Basic Oxygen Furnace, LHF = Ladle Heating Furnace, CCM = Continuous Casting Machine, HSM = Hot Strip Mill, CPL = Continuous Pickling Line, CRM = Cold Rolling Mill, ECL = Electrolytic Cleaning Line, BAF = Batch Annealing Furnace, SPM = Skin Pass Mill, RCL = Recoiling Cum Inspection Line, APL = Automatic Packaging Line, PLTCM = Pickling Cum Tandem Mill, CGL = Continuous Galvanizing line CAL = Continuous Annealing Line, CTL = Cut to Length, HRS = HR Slitters, HTL = HR Cut to Length</p>	<p>T x W x T = Thickness x Width x Length, Chemistry = Ladle Sample Analysis, 1MPa = 1N/mm², YS = Yield Strength, UTS = Ultimate Tensile Strength, EL = %ge Elongation on Standard Gauge Length GSM = Grams per Square Meter Oil Type : Quaker or FUCHS</p>		<p>Certified By</p> <p><i>A Jindal</i> (ANVISH JINDAL)</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------