



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 _ 40 / 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				GL mm
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	-	-	-	-	
C350893	G353311000	1.520	X	1219.0	X	Coil	10.460	10.540	0.033	0.190	0.010	0.016	0.011	0.060	0.0038	212	347	44.50	0.90	50MM	Pass	52.00	
C350899	G352442000	1.520	X	1219.0	X	Coil	10.930	11.015	0.036	0.180	0.010	0.016	0.013	0.057	0.0039	227	360	43.10	0.84	50MM	Pass	53.00	
C350899	G352441000	1.520	X	1219.0	X	Coil	10.650	10.730	0.036	0.180	0.010	0.016	0.013	0.057	0.0039	227	360	43.10	0.84	50MM	Pass	53.00	
C350899	G351872000	1.520	X	1219.0	X	Coil	10.895	10.980	0.036	0.180	0.010	0.016	0.013	0.057	0.0039	226	355	44.80	0.81	50MM	Pass	51.00	
C350899	G351871000	1.520	X	1219.0	X	Coil	10.645	10.725	0.036	0.180	0.010	0.016	0.013	0.057	0.0039	226	355	44.80	0.81	50MM	Pass	51.00	
B350904	G351822000	1.520	X	1219.0	X	Coil	10.870	10.955	0.034	0.190	0.010	0.015	0.014	0.048	0.0035	214	349	44.20	0.80	50MM	Pass	52.00	
C350902	G349201000	1.520	X	1219.0	X	Coil	10.630	10.710	0.027	0.190	0.010	0.015	0.009	0.060	0.0040	225	349	45.80	1.01	50MM	Pass	53.00	
C350902	G349202000	1.520	X	1219.0	X	Coil	10.915	11.000	0.027	0.190	0.010	0.015	0.009	0.060	0.0040	225	349	45.80	1.01	50MM	Pass	53.00	
B350904	G351821000	1.520	X	1219.0	X	Coil	10.545	10.625	0.034	0.190	0.010	0.015	0.014	0.048	0.0035	214	349	44.20	0.80	50MM	Pass	52.00	
A350909	G350201000	1.520	X	1219.0	X	Coil	11.185	11.270	0.032	0.220	0.010	0.014	0.008	0.060	0.0040	210	344	44.00	1.19	50MM	Pass	50.00	
A350917	G350852000	1.520	X	1219.0	X	Coil	10.890	10.970	0.045	0.220	0.010	0.012	0.010	0.060	0.0040	222	355	43.30	0.75	50MM	Pass	51.00	
A350909	G350202100	1.520	X	1219.0	X	Coil	6.095	6.150	0.032	0.220	0.010	0.014	0.008	0.060	0.0040	210	344	44.00	1.19	50MM	Pass	50.00	
C350902	G349371000	1.520	X	1219.0	X	Coil	10.540	10.625	0.027	0.190	0.010	0.015	0.009	0.060	0.0040	175	312	50.00	0.70	50MM	Pass	50.00	
C350902	G349372000	1.520	X	1219.0	X	Coil	10.345	10.425	0.027	0.190	0.010	0.015	0.009	0.060	0.0040	175	312	50.00	0.70	50MM	Pass	50.00	
C350899	G360851000	1.520	X	1219.0	X	Coil	10.645	10.725	0.036	0.180	0.010	0.016	0.013	0.057	0.0039	228	352	45.10	1.01	50MM	Pass	52.00	
B350919	G353811000	1.520	X	1219.0	X	Coil	10.685	10.770	0.039	0.190	0.010	0.017	0.006	0.057	0.0040	228	349	47.70	1.09	50MM	Pass	51.00	
B350919	G349862000	1.520	X	1219.0	X	Coil	10.165	10.245	0.039	0.190	0.010	0.017	0.006	0.057	0.0040	218	352	44.30	1.13	50MM	Pass	52.00	



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Product: Cold Rolled Annealed, Skinpassed & Oiled								Chemical Composition & Mechanical Properties												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		GL mm	Bend Test
Specification : ASTM A_1008 CS_B		MIN	----->		-	-	-	-	-	-	-	-	-	-	-	140	-	30.00	0.70	-	-	-
		MAX	----->		0.1000	0.600	0.0350	0.030	-	-	1.0000	275	-	-	-	-	-	-	-	-	-	-
A350917	G355802000	1.520	X	1219.0	X	Coil	10.740	10.820	0.045	0.220	0.010	0.012	0.010	0.060	0.0040	222	346	46.00	1.08	50MM	Pass	51.00
A350917	G350851000	1.520	X	1219.0	X	Coil	10.580	10.655	0.045	0.220	0.010	0.012	0.010	0.060	0.0040	222	355	43.30	0.75	50MM	Pass	51.00
B350919	G349861000	1.520	X	1219.0	X	Coil	11.200	11.280	0.039	0.190	0.010	0.017	0.006	0.057	0.0040	218	352	44.30	1.13	50MM	Pass	52.00
C350902	G349822000	1.520	X	1219.0	X	Coil	10.860	10.950	0.027	0.190	0.010	0.015	0.009	0.060	0.0040	219	351	43.30	1.14	50MM	Pass	50.00
B350919	G353812000	1.520	X	1219.0	X	Coil	10.900	10.985	0.039	0.190	0.010	0.017	0.006	0.057	0.0040	228	349	47.70	1.09	50MM	Pass	51.00
A350917	G355801000	1.520	X	1219.0	X	Coil	10.615	10.700	0.045	0.220	0.010	0.012	0.010	0.060	0.0040	222	346	46.00	1.08	50MM	Pass	51.00
C350902	G349821000	1.520	X	1219.0	X	Coil	10.565	10.650	0.027	0.190	0.010	0.015	0.009	0.060	0.0040	219	351	43.30	1.14	50MM	Pass	50.00
A350909	G349792000	1.520	X	1219.0	X	Coil	10.940	11.025	0.032	0.220	0.010	0.014	0.008	0.060	0.0040	220	348	46.20	1.20	50MM	Pass	50.00
B350904	G350802000	1.520	X	1219.0	X	Coil	10.940	11.020	0.034	0.190	0.010	0.015	0.014	0.048	0.0035	215	349	45.80	0.84	50MM	Pass	50.00
A350917	G349711000	1.520	X	1219.0	X	Coil	11.265	11.350	0.045	0.220	0.010	0.012	0.010	0.060	0.0040	224	353	45.00	1.12	50MM	Pass	51.00
A350917	G349712000	1.520	X	1219.0	X	Coil	10.250	10.330	0.045	0.220	0.010	0.012	0.010	0.060	0.0040	224	353	45.00	1.12	50MM	Pass	51.00
B350904	G350801000	1.520	X	1219.0	X	Coil	10.610	10.690	0.034	0.190	0.010	0.015	0.014	0.048	0.0035	215	349	45.80	0.84	50MM	Pass	50.00
C350893	G353312000	1.520	X	1219.0	X	Coil	10.645	10.725	0.033	0.190	0.010	0.016	0.011	0.060	0.0038	212	347	44.50	0.90	50MM	Pass	52.00
A350909	G349791000	1.520	X	1219.0	X	Coil	10.595	10.675	0.032	0.220	0.010	0.014	0.008	0.060	0.0040	220	348	46.20	1.20	50MM	Pass	50.00
A350909	G348591000	1.520	X	1219.0	X	Coil	10.575	10.650	0.032	0.220	0.010	0.014	0.008	0.060	0.0040	219	347	46.80	0.95	50MM	Pass	50.00
A350909	G348592000	1.520	X	1219.0	X	Coil	10.920	11.000	0.032	0.220	0.010	0.014	0.008	0.060	0.0040	219	347	46.80	0.95	50MM	Pass	50.00
A350914	G348781000	1.520	X	1219.0	X	Coil	10.585	10.665	0.045	0.210	0.010	0.012	0.011	0.056	0.0038	227	358	45.70	1.07	50MM	Pass	51.00



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Product: Cold Rolled Annealed, Skinpassed & Oiled								Chemical Composition & Mechanical Properties											Remarks
Specification : ASTM A_1008 CS_B	MIN	----->	C	Mn	S	P	Si	Al	N	YS	UTS	EL	Ra	GL	Bend Test	Hard			
			%	%	%	%	%	%	%	%	%	MPa	MPa	%	µm	mm	HRB		
			-	-	-	-	-	-	-	140	-	30.00	0.70						
			0.1000	0.600	0.0350	0.030	-	-	1.0000	275	-	-	1.60	-	-	-			
	MAX	----->																	
Cast/Heat No.	Coil No.	T X W X L (mm)	Net Wt.	Gross Wt.	C	Mn	S	P	Si	Al	N	YS	UTS	EL	Ra	GL	Bend Test	Hard	Remarks
					%	%	%	%	%	%	%	MPa	MPa	%	µm	mm		HRB	
A350914	G348782000	1.520 X 1219.0 X Coil	10.910	10.990	0.045	0.210	0.010	0.012	0.011	0.056	0.0038	227	358	45.70	1.07	50MM	Pass	51.00	
B350904	G348971000	1.520 X 1219.0 X Coil	10.680	10.765	0.034	0.190	0.010	0.015	0.014	0.048	0.0035	224	351	48.00	1.07	50MM	Pass	51.00	
B350904	G348972000	1.520 X 1219.0 X Coil	10.900	10.985	0.034	0.190	0.010	0.015	0.014	0.048	0.0035	224	351	48.00	1.07	50MM	Pass	51.00	
Total Weight in Metric Tonnes			392.365	395.370															
Total no of Batches			37																



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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

Commercial Invoice : 7020004333
Sales Contract Number : 4626
Product: : PRIME COLD ROLLED STEEL
COILS, SKINPASSED, MATTE
FINISH, OILED
with Trimmed Edge
Process Route : BOF-LHF-CCM-HSM-PLTCM-CAL-
APL

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

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

Certified By

A Jindal
(ANVISH JINDAL)