



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 _ 20 / 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	-	-	-
								-----		0.1000	0.600	0.0350	0.030	-	-	1.0000	275	-	-	1.60	-	-	-
								MAX	----->														
A350914	G349111000	1.900	X	1219.0	X	Coil	10.575	10.655	0.045	0.210	0.010	0.012	0.011	0.056	0.0038	240	358	46.20	0.95	50MM	Pass	55.00	
A350914	G349102000	1.900	X	1219.0	X	Coil	10.850	10.930	0.045	0.210	0.010	0.012	0.011	0.056	0.0038	245	358	46.00	1.19	50MM	Pass	55.00	
A350914	G349101000	1.900	X	1219.0	X	Coil	10.570	10.650	0.045	0.210	0.010	0.012	0.011	0.056	0.0038	245	358	46.00	1.19	50MM	Pass	55.00	
A350911	G349092000	1.900	X	1219.0	X	Coil	10.795	10.875	0.034	0.220	0.010	0.008	0.010	0.056	0.0039	239	355	47.40	0.98	50MM	Pass	57.00	
A350911	G349091000	1.900	X	1219.0	X	Coil	10.520	10.600	0.034	0.220	0.010	0.008	0.010	0.056	0.0039	239	355	47.40	0.98	50MM	Pass	57.00	
A350914	G349112000	1.900	X	1219.0	X	Coil	10.870	10.950	0.045	0.210	0.010	0.012	0.011	0.056	0.0038	240	358	46.20	0.95	50MM	Pass	55.00	
A350914	G349311000	1.900	X	1219.0	X	Coil	10.525	10.610	0.045	0.210	0.010	0.012	0.011	0.056	0.0038	230	355	45.90	0.91	50MM	Pass	57.00	
A350914	G349312000	1.900	X	1219.0	X	Coil	10.845	10.925	0.045	0.210	0.010	0.012	0.011	0.056	0.0038	230	355	45.90	0.91	50MM	Pass	57.00	
A350911	G356272000	1.900	X	1219.0	X	Coil	10.685	10.765	0.034	0.220	0.010	0.008	0.010	0.056	0.0039	231	348	44.80	1.50	50MM	Pass	54.00	
A350911	G356271000	1.900	X	1219.0	X	Coil	10.555	10.635	0.034	0.220	0.010	0.008	0.010	0.056	0.0039	231	348	44.80	1.50	50MM	Pass	54.00	
A350911	G349701000	1.900	X	1219.0	X	Coil	10.535	10.610	0.034	0.220	0.010	0.008	0.010	0.056	0.0039	229	349	47.10	0.99	50MM	Pass	51.00	
A350911	G349702000	1.900	X	1219.0	X	Coil	10.695	10.775	0.034	0.220	0.010	0.008	0.010	0.056	0.0039	229	349	47.10	0.99	50MM	Pass	51.00	
A350917	G349761000	1.900	X	1219.0	X	Coil	10.580	10.660	0.045	0.220	0.010	0.012	0.010	0.060	0.0040	242	357	47.00	0.99	50MM	Pass	55.00	
A350917	G349762200	1.900	X	1219.0	X	Coil	8.495	8.570	0.045	0.220	0.010	0.012	0.010	0.060	0.0040	242	357	47.00	0.99	50MM	Pass	50.00	
A350909	G350071000	1.900	X	1219.0	X	Coil	10.495	10.575	0.032	0.220	0.010	0.014	0.008	0.060	0.0040	236	344	46.40	1.08	50MM	Pass	58.00	
A350909	G350072000	1.900	X	1219.0	X	Coil	10.840	10.925	0.032	0.220	0.010	0.014	0.008	0.060	0.0040	236	344	46.40	1.08	50MM	Pass	58.00	
A350914	G350111000	1.900	X	1219.0	X	Coil	10.540	10.630	0.045	0.210	0.010	0.012	0.011	0.056	0.0038	242	356	46.50	1.07	50MM	Pass	59.00	



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Product: Cold Rolled Annealed, Skinpassed & Oiled							Chemical Composition & Mechanical Properties													Remarks
Specification	MIN	MAX	C	Mn	S	P	Si	Al	N	YS	UTS	EL	Ra	GL	Bend Test	Hard				
ASTM A_1008 CS_B			%	%	%	%	%	%	%	MPa	MPa	%	µm	mm		HRB				
	----->	----->	-	-	-	-	-	-	-	140	-	30.00	0.70	-	-	-				
			0.1000	0.600	0.0350	0.030	-	-	1.0000	275	-	-	1.60	-	-	-				
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	
A350914	G350112000	1.900 X 1219.0 X Coil	10.790	10.870	0.045	0.210	0.010	0.012	0.011	0.056	0.0038	242	356	46.50	1.07	50MM	Pass	59.00		
Total Weight in Metric Tonnes			189.760	191.210																
Total no of Batches			18																	

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)