



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 _ 30 / 7020004333

Date 01.04.2017

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 μ m		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	-	-	-	-	-	-	-	-	-	-
B350865	G349121000	1.520	X	914.0	X	Coil	8.020	8.090	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	227	352	44.30	1.15	50MM	Pass	52.00
B350865	G349122000	1.520	X	914.0	X	Coil	8.305	8.380	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	227	352	44.30	1.15	50MM	Pass	52.00
B350865	G348932000	1.520	X	914.0	X	Coil	8.260	8.330	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	231	356	44.10	1.03	50MM	Pass	53.00
B350865	G348931000	1.520	X	914.0	X	Coil	7.995	8.070	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	231	356	44.10	1.03	50MM	Pass	53.00
B350865	G349351000	1.520	X	914.0	X	Coil	8.050	8.120	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	216	350	44.80	0.95	50MM	Pass	53.00
B350865	G349352000	1.520	X	914.0	X	Coil	8.165	8.235	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	216	350	44.80	0.95	50MM	Pass	53.00
C350064	G339091000	1.520	X	914.0	X	Coil	7.920	7.990	0.030	0.180	0.009	0.014	0.015	0.050	0.0035	238	355	44.40	1.24	50MM	Pass	54.00
C350064	G339092000	1.520	X	914.0	X	Coil	8.165	8.235	0.030	0.180	0.009	0.014	0.015	0.050	0.0035	238	355	44.40	1.24	50MM	Pass	54.00
B350865	G348572000	1.520	X	914.0	X	Coil	8.205	8.275	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	214	349	43.80	0.79	50MM	Pass	51.00
B350865	G348571000	1.520	X	914.0	X	Coil	8.040	8.105	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	214	349	43.80	0.79	50MM	Pass	51.00
C350860	G348432000	1.520	X	914.0	X	Coil	8.215	8.285	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	228	358	43.40	1.04	50MM	Pass	51.00
C350860	G348431000	1.520	X	914.0	X	Coil	7.990	8.065	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	228	358	43.40	1.04	50MM	Pass	51.00
C350860	G348402000	1.520	X	914.0	X	Coil	8.250	8.325	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	244	358	45.20	1.00	50MM	Pass	54.00
C350860	G348401000	1.520	X	914.0	X	Coil	8.045	8.115	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	244	358	45.20	1.00	50MM	Pass	54.00
C350860	G348222000	1.520	X	914.0	X	Coil	8.165	8.235	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	222	355	43.30	0.89	50MM	Pass	53.00
C350860	G348221000	1.520	X	914.0	X	Coil	8.070	8.135	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	222	355	43.30	0.89	50MM	Pass	53.00
B350865	G347331000	1.520	X	914.0	X	Coil	8.005	8.075	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	226	352	44.90	1.03	50MM	Pass	52.00



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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 MPa	UTS MPa	EL %	Ra µm	GL mm	Bend Test	Hard HRB	Remarks
B350865	G347332000	1.520 X 914.0 X Coil	8.160	8.225	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	226	352	44.90	1.03	50MM	Pass	52.00	
A350870	G350102000	1.520 X 914.0 X Coil	8.230	8.295	0.032	0.170	0.007	0.008	0.010	0.047	0.0037	209	340	46.10	0.88	50MM	Pass	50.00	
A350870	G350101000	1.520 X 914.0 X Coil	8.050	8.120	0.032	0.170	0.007	0.008	0.010	0.047	0.0037	209	340	46.10	0.88	50MM	Pass	50.00	
B350865	G347912000	1.520 X 914.0 X Coil	8.255	8.325	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	211	344	44.80	0.78	50MM	Pass	50.00	
B350865	G347911000	1.520 X 914.0 X Coil	8.040	8.110	0.036	0.180	0.010	0.020	0.009	0.055	0.0040	211	344	44.80	0.78	50MM	Pass	50.00	
Total Weight in Metric Tonnes			178.600	180.140															
Total no of Batches			22																



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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, SKIN PASSED, 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)