



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 _ 70 / 7020004333

Date 01.04.2017

Product: Cold Rolled Annealed, Skinpassed & Oiled									Chemical Composition & Mechanical Properties											Remarks				
									C	Mn	S	P	Si	Al	N	YS	UTS	EL	Ra		GL	Bend Test	Hard	
									%	%	%	%	%	%	%	MPa	MPa	%	µm		mm		HRB	
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	----->														
Cast/Heat No.	Coil No.	T	X	W	X	L	Net Wt.	Gross Wt.	C	Mn	S	P	Si	Al	N	YS	UTS	EL	Ra	GL	Bend Test	Hard	Remarks	
				(mm)					%	%	%	%	%	%	%	MPa	MPa	%	µm	mm		HRB		
C350860	G350231000	0.910	X	914.0	X	Coil	7.980	8.050	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	228	355	42.90	0.78	50MM	Pass	50.00		
C350860	G350232000	0.910	X	914.0	X	Coil	8.180	8.255	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	228	355	42.90	0.78	50MM	Pass	50.00		
C350860	G348201000	0.910	X	914.0	X	Coil	8.110	8.180	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	246	358	42.80	0.86	50MM	Pass	51.00		
C350860	G348202000	0.910	X	914.0	X	Coil	8.335	8.405	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	246	358	42.80	0.86	50MM	Pass	51.00		
C350863	G349191000	0.910	X	914.0	X	Coil	8.055	8.125	0.029	0.200	0.010	0.015	0.009	0.053	0.0040	229	353	42.60	0.72	50MM	Pass	50.00		
C350874	G348461100	0.910	X	914.0	X	Coil	7.565	7.635	0.045	0.200	0.010	0.010	0.007	0.055	0.0040	233	356	45.80	0.82	50MM	Pass	51.00		
C350874	G348462000	0.910	X	914.0	X	Coil	8.235	8.305	0.045	0.200	0.010	0.010	0.007	0.055	0.0040	233	356	45.80	0.82	50MM	Pass	51.00		
C350863	G349192000	0.910	X	914.0	X	Coil	6.755	6.810	0.029	0.200	0.010	0.015	0.009	0.053	0.0040	229	353	42.60	0.72	50MM	Pass	50.00		
A350873	G349811000	0.910	X	914.0	X	Coil	8.125	8.195	0.030	0.200	0.009	0.007	0.009	0.050	0.0032	241	353	42.80	0.97	50MM	Pass	50.00		
A350873	G349812000	0.910	X	914.0	X	Coil	8.315	8.385	0.030	0.200	0.009	0.007	0.009	0.050	0.0032	241	353	42.80	0.97	50MM	Pass	50.00		
C350863	G350901000	0.910	X	914.0	X	Coil	8.015	8.085	0.029	0.200	0.010	0.015	0.009	0.053	0.0040	238	353	43.40	0.85	50MM	Pass	51.00		
Total Weight in Metric Tonnes							87.670	88.430																
Total no of Batches							11																	



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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)