



ISPAT INDUSTRIES LTD., KALMESHWAR

Quality Assurance Department

Technical Delivery Conditions (TDC)

BRIGHT FINISH CRCA STEEL WITH CONTROLLED RA

Date of Issue	16.03.2006	Revision No.	00	Document No.	III/KLM/PD/CR/TDC/27
----------------------	------------	---------------------	----	---------------------	----------------------

Application	1	Silencers
	2	
	3	

Equivalent ref. Grade	Specified Grade
	JIS:G:3141 SPCD
	DIN: 1623

Chemistry,wt%	Range	C	Si	S	P	Mn	Ni	Cr	Cu	Mo	Nb	V	Ti	Al	N ppm
DD	Min.	-	-	-	-	-	-	-	-	-	-	-	-	0.020	-
	Max.	0.040	0.030	0.020	0.020	0.250	-	-	-	-	-	-	-	0.080	-

Mechanical Properties	Range	YS	UTS	% Elongation		Bend Test	ECV	r-bar	n-val	HRB
		Mpa	Mpa	50 GL	80 GL	180°	mm			
DD	Min.	175	275	43	-	-	-	-	-	-
	Max.	240	340	-	-	-	-	-	-	57

Surface Finish: Bright / Matte

Process Capability:

DD	Range	Thickness, mm	Width, mm	Length, mm	Zinc Coating, GSM
	Min	0.60	-	As per	NA
	Max	2.00	1250	Requirement	NA

Note:

1	
2	

Coil Weight: 10 MT max. **Coil Internal Diameter:** 508 mm / 20" **Packet Weight:** 2.00 - 3.00 MT

Process Route:

HR Coil --Pickling-->Rolling Mill --> BAF -->Rolling Mill --> ECL --> BAF --> Finishing --> Packing --> Despatch

Certification:

The Mill Test Certificate (MTC) gives the results of all the tests required by the standards for each grade (Chemistry, Mechanical).

Tolerances: Please refer annexure : CR SPECIFICATION

Prepared by: V.S.Gadag	Approved by: Dr.N.C.Jain Vice President - QA	Issued by:
----------------------------------	---	-------------------