

Prilog 1

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Supplement / Prilog

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ArcelorMittal

M230-50A AM FCE

Non-Oriented Fully-Process Electrical Steel

		Guaranty	Typical
Thickness	(mm)	[0.46 - 0.54]	0.48 ± 0.02
Width	(mm)	≤ 1135	
Magnetic properties	Core Loss @ 1.0T / 50Hz	-	0.96 W/kg
	Core Loss @ 1.5T / 50Hz	≤ 2.30 W/kg	2.26 W/kg
	Polarization @ 2500 A/m	≥ 1.49 T	1.56 T
	Polarization @ 5000 A/m	≥ 1.60 T	1.65 T
	Polarization @ 10000 A/m	≥ 1.70 T	1.77 T
Test density	7600 kg/m ³	-	-
Loss anisotropy	EN 10106	± 17 % max	± 12 % max
Tensile properties	Yield Strength	-	450 N/mm ²
	Tensile Strength	-	565 N/mm ²
	Total Elongation A80	-	18%
Hardness	HV5	-	225
Bending test	EN 7799	≥ 2	6
Stacking factor	EN 60404-13	≥ 0.97	0.98
Coating	EC-6 up to 7 µm EC-5 up to 4 µm EC-3 up to 4 µm	-	-



SAINT CHELY D'APCHER
FRANCE

INSPECTION CERTIFICATE

ACCORDING TO EN 10204 3.1

ELECTRICAL STEEL

NO : 69958-01

PAGE : 1/1

PRODUIT / PRODUCT
TOLE / SHEET
VERNIS/COATING EC-3 CODE S24
FACES / SIDES : 2

AGENCIJA ZA NEKRETNOST
AVENUE DES MARTRES DU MAQUIS
F-48200 SAINT CHELY D'APCHER

CLIENT ET / OU DESTINATAIRE
CUSTOMER AND/OR CONSIGNEE
17137 / KONCAR GENERATORI I MOTORI D.D

N. COMMANDE CLIENT
CUSTOMER ORDER REFERENCES
202-1118/15 ITEM 1

N. COMMANDE USINE
ARCEORMITTAL ORDER REF
80907 / 0570043562

MANQUE ET SPECIFICATIONS TECHNIQUES
STEEL GRADE AND SPECIFICATIONS
M 230-50 A EN 10106/07

IDENTIFICATION DU PRODUIT PRODUCT IDENTIFICATION	N° BOBINE COIL NO	N° COULEE HEAT NO	N° POSITE TIER NO	PIECES NO HERE PIECES	DIMENSIONS (MM)			ROIDS NET NET WEIGHT (KG)	CHEMICAL COMPOSITION			LOSSES 50 HZ M/KG	POLARIZATION			RESD TEST
					SIZE	EPAISSEUR THICKNESS	LONGUEUR LENGTH		HAUTEUR WIDTH	LONGUEUR LENGTH	PPM		PPM	PPM	PPM	

G53133B	510476		1	758	0,500	725,00	2465,0	5300	33	2061	33248	18	2,22	1,546	1,642	1,765	> 2
G53408A	529598		1	1021	0,500	725,00	2465,0	7125	38	1989	32943	15	2,22	1,550	1,646	1,766	> 2
G53397A	529598		1	756	0,500	725,00	2465,0	5280	38	1989	32943	15	2,27	1,550	1,644	1,766	> 2
G53407A	529598		1	716	0,500	725,00	2465,0	5000	38	1989	32943	15	2,26	1,545	1,640	1,763	> 2

IDENTIFICATION DU PRODUIT PRODUCT IDENTIFICATION		METALLURGY-QUALITY	
N° BOBINE COIL NO	N° COULEE HEAT NO	DATE	RESPONSABLE

30/03/2015
LE RESPONSABLE
THE MANAGER

H. HERIQUE
H. Herique



Abnahmeprüfzeugnis / Specific test report

nach DIN EN 10204 - 3.1

Produktbezeichnung **Voltatex® 1151E** Datum **18.06.2015**
Name of the product Date

Hersteller **Axalta Coating Systems Austria GmbH**
Producer

Lackverarbeiter **KONCAR GENERATORI I MOTORI D.D.**
Customer

Auftrag - Nr. 7407580692

Order - No.

Ihr Auftrag - Nr. 202-1276/15

Your Order - No.

Chargen - Nr. 3037032

Batch - No.

Menge 1620 kg

Quantity

Prüfung Test		Soll-Wert Limits	Ist-Wert Value
Dichte [g/cm ³] Density	DIN EN ISO 2811-2 20°C	1,70 - 1,90	1,84
pH-Wert pH-value	DIN ISO 976 20°C	7,5 - 9,5	8,7
Einbrennrückstand Stoving residue [%]	DIN EN ISO 3251 2 h / 110°C	73 - 78	76,4
Auslaufzeit [sek] Flow time	DIN 53211 20°C	110 - 150	135

This test report has been electronically created, valid without signature.
For further queries contact Dr. Lomoschitz - Energy Solutions Voltatex®
Axalta Coating Systems Austria GmbH
GU-I-3004-ESVS-F1 / Version 1 / 10/14