

FULLY PROCESSED



Electrical Steel | Fully processed

isovac 1000-100 A data sheet | Page 1/3 | 01/2026

isovac 1000-100 A

The perfect solution for direct application

Manufactured in the most modern production lines, this fully processed isovac® grade exhibits highly homogeneous properties across the width and length of the entire strip. The result is excellent and consistent processability in the manufacture of highly efficient electrical components. Upon request, isovac 1000-100 A can be supplied with an electrical steel insulation system and can be used directly in as-delivered condition.

Convincing advantages:

- » Best processability through consistent mechanical properties and homogeneous, clean surfaces
- » Excellent stackability resulting from high dimensional accuracy in rolling direction and perpendicular to rolling direction (thickness tolerance)
- » Innovative electrical steel insulation systems upon request



Premium quality
with reduced carbon footprint

isovac®
greentec steel

voestalpine supplies isovac 1000-100 A, an electrical steel of the highest quality. We offer you a customer-focused overall package of products, service and logistics in addition to all the advantages of our integrated metallurgical facility and Steel Service Centers.

Grade named pursuant to conventional international standards:

Grade named according to isovac®	DIN EN 10106 Material No.	DIN EN 10106 Abbreviation	IEC 60404-8-4	JIS C2552	GOST 21427.2	ASTM A677	AISI	IS648	GB/T2521.1
isovac 1000-100 A	1.0896	M1000-100A	M1000-100A 5	100A1000	-	-	-	100C1000	-

Mechanical properties:

Tensile test pursuant to DIN EN ISO 6892-1

Test direction: Transverse

Grade named according to isovac®	0.2 %-Yield strength $R_{p0.2}$ [MPa] min.	Tensile strength R_m [MPa]
isovac 1000-100 A	280	395 - 475

Magnetic properties:

in as-delivered condition

Magnetic measurement pursuant to DIN EN 60404-2 (Epstein test)

Test direction: Mixed longitudinal and transverse

Grade named according to isovac®	Specific total loss at 50 Hz			Magnetic polarization at 50 Hz								
	1.0 T P10 [W/kg]	1.5 T P15 [W/kg]	typ.	2500 A/m J25 [T]	5000 A/m J50 [T]	10000 A/m J100 [T]	min.	typ.	min.	typ.	min.	typ.
isovac 1000-100 A	3.55	10.00	8.45	1.58	1.63	1.68	1.58	1.63	1.68	1.72	1.76	1.83

Physical properties:

Density in accordance with DIN EN 10106

Thermal conductivity measurement pursuant to EN ISO 22007-2 (Hot-disk-method)

Grade named according to isovac®	Density ρ [g/cm³]	Specific electrical resistance ρ_s [$\mu\Omega\text{cm}$] typ.	Thermal conductivity λ [W/mK] typ.
isovac 1000-100 A	7.80	31.1	31.7



Datasheets and simulation data are available at
www.voestalpine.com/isovac/en/product-overview/data-sheets

Available Dimensions

Grade named according to isovac®	Delivery form	Width [mm] min.	Length [mm]
isovac 1000-100 A	Wide strip / Slit strip	19	-
	Cut-to-length sheets	300	300 - 5000

Deliverable coating systems

Grade named according to isovac®	Uncoated	C-3	Backslack	C-5	C-6
isovac 1000-100 A	☒ Available	☒	☒	☒	☒

☒ Available ☐ On request



Premium quality with reduced carbon footprint

ISOVAC®
greentec steel

Fully processed electrical steel – greentec steel Edition

Max. carbon footprint 2.30 kg CO₂e per kg of steel ¹⁾

¹⁾ per EN 15804+A2 (EPD methodology) cradle to gate

All products, dimensions and steel grades listed in each voestalpine supply range are available as greentec steel Edition.

The information and product properties contained in this printed material are non-binding and serve the sole purpose of technical orientation. They do not replace individual advisory services provided by our sales and customer service teams. The product information and characteristics set forth herein shall not be considered as guaranteed properties unless explicitly stipulated in a separate contractual agreement. For this reason, voestalpine shall not grant any warranty nor be held liable for properties and/or specifications other than those subject to explicit agreement. This also applies to the suitability and applicability of products for certain applications as well as to the further processing of materials into final products. All application risks and suitability risks shall be borne by the customer. The General Terms of Sale for Goods and Services of the voestalpine Steel Division shall apply to all materials supplied by the voestalpine Steel Division and can be accessed using the following link: www.voestalpine.com/stahl/en/The-Steel-Division/General-Terms-of-Sale

Technical changes are reserved. Errors and misprints are excepted. No part of this publication may be reprinted without explicit written permission by voestalpine Stahl GmbH.

Please find further information and
downloadable files at the following link:
www.voestalpine.com/isovac



voestalpine Stahl GmbH

voestalpine-Straße 3

4020 Linz, Austria

productmanagement@voestalpine.com

www.voestalpine.com/isovac

voestalpine

ONE STEP AHEAD.