

Electrical Steel | Fully processed

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 sur-
- » 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 auality with reduced carbon footprint







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. 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]	Elongation A ₈₀ [%] min.
isovac 1000-100 A	285	410 - 460	33

Magnetic properties:

in as-delivered condition

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

Test direction: Mixed longitudinal and transverse

	Specific total loss at 50 Hz				Magnetic polarization at 50 Hz					
	P1	1.0 T 1.5 T P10 P15 [W/kg] [W/kg]		2500 A/m J25 [T]		5000 A/m J50 [T]		10000 A/m J100 [T]		
Grade named according to isovac®	max.	typ.	max.	typ.	min.	typ.	min.	typ.	min.	typ.
isovac 1000-100 A	4.40	3.55	10.00	8.50	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 $\begin{array}{c} \rho_s \\ [\mu\Omega\text{cm}] \\ \text{typ.} \end{array}$	Thermal conductivity \(\lambda \) [W/mK] typ.
isovac 1000-100 A	7.80	31.1	32



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	Backlack	C-5	C-6
isovac 1000-100 A	⊘	⊘		⊗	©







Premium quality with reduced carbon footprint



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.

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