



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		IEC 60404-8-4	JIS C2552	GOST 21427.2	ASTM A677	AISI	IS648	GB/T2521.1
	Material No.	Abbreviation							
isovac 1000-100 A	1.0896	M1000-100A	M1000-100A 5	100A1000	-	-	-	100C1000	-

Mechanical properties:

Tensile test pursuant to DIN EN ISO 6892-1 and hardness pursuant to DIN EN ISO 6507-1 (Typical values);
Test direction: Transverse

Grade named according to isovac®	Yield strength R _{eH} [MPa]	0.2 %-Yield strength R _{p0.2} [MPa]	Tensile strength R _m [MPa]	Elongation A ₈₀ [%]	Hardness HV10 [-]
isovac 1000-100 A	340	310	440	36.0	140

Magnetic properties:

in as-delivered condition (Typical values)
Magnetic measurement pursuant to DIN EN 60404-2 (Epstein test)
Test direction: Mixed longitudinal and transverse

Grade named according to isovac®	Specific total loss				Magnetic polarization			Relative permeability
	1.0 T P10		1.5 T P15		2500 A/m J25	5000 A/m J50	10000 A/m J100	1.5 T μ _r
	50 Hz [W/kg]	60 Hz [W/lb]	50 Hz [W/kg]	60 Hz [W/lb]	[T]	[T]	[T]	[-]
isovac 1000-100 A	3.70	2.18	8.80	5.19	1.64	1.72	1.83	1530

Physical properties:

Typical values
Density in accordance with DIN EN 10106

Grade named according to isovac®	Density ρ [g/cm ³]	Specific electrical resistance ρ _s [μΩcm]	Thermal conductivity λ [W/mK]
isovac 1000-100 A	7.80	31.1	36



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]	Length [mm]
isovac 1000-100 A	Wide strip / Slit strip	19 – 1590	-
	Cut-to-length sheets	300 – 1590	300 – 5000

Deliverable coating systems

Grade named according to isovac®	Uncoated	C-3	Backlack	C-5	C-6
isovac 1000-100 A	☑	☑	☐	☑	☑

☑ Available ☐ On request



Premium quality with reduced carbon footprint



Fully processed electrical steel – greentec steel Edition

Max. carbon footprint 2.45 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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Please find further information and downloadable files at the following link: www.voestalpine.com/isovac

