

Electrical Steel

High Permeability
Grain Oriented (HGO)



aperam
made for life

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Aperam seeks to offer the best products and services to its customers. Therefore, the Company is gearing up to manufacture High Permeability Grain Oriented Steel (HGO), a material used for production of high-efficiency power transformers.

This new product will bring Aperam into the select group of worldwide HGO producers. The project is the biggest undertaken by the Company in the last years, including investments amounting to more than 15 million dollars.

The technological boldness will represent a profound change in the way steel is manufactured, having a positive impact on the market.

The project will offer a grade of steel having higher permeability and affording increased energy efficiency, in line with the trend towards a bigger demand for more efficient products and which result in lower electric power consumption. For the power generation and distribution sectors, this will mean smaller, yet more efficient transformers.

This innovation will expand the Company's portfolio, offering another product bearing Aperam's quality seal to the market.

Type	Grade Aperam	Thickness (mm)	Max. Core loss @ 1.7T/50Hz (W/kg)	Max. Core loss @ 1.7T/60Hz (W/kg)	Min. Magnetic Induction B800 (T)
RGO Regular Grain Oriented	R120-27	0.27	1.20	1.58	1.78
	R130-27	0.27	1.30	1.68	1.78
	R130-30	0.30	1.30	1.71	1.78
	R140-30	0.30	1.40	1.83	1.78
	R145-35	0.35	1.45	1.91	1.78
	R150-35	0.35	1.50	1.97	1.78
	R155-35	0.35	1.55	2.04	1.78

Type	Grade Aperam	Thickness (mm)	Max. Core loss @ 1.7T/50Hz (W/kg)	Max. Core loss @ 1.7T/60Hz (W/kg)	Min. Magnetic Induction B800 (T)
HGO High Permeability Grain Oriented	H095-27	0.27	0.95	1.25	1.85
	H100-27	0.27	1.00	1.32	1.88
	H110-27	0.27	1.10	1.45	1.88
	H100-30	0.30	1.00	1.32	1.88
	H105-30	0.30	1.05	1.38	1.88
	H110-30	0.30	1.10	1.46	1.88
	H120-30	0.30	1.20	1.58	1.85
	H115-35	0.35	1.15	1.51	1.88
	H125-35	0.35	1.25	1.64	1.88
	H135-35	0.35	1.35	1.77	1.88

Estimated Portfolio

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