

NANO CRYSTALLINE RIBBONS/CORES



IRON-BASED NANOCRYSTAL STRIP

◆ properties of products

saturated magnetic induction intensity (T)	1.61	Saturated magnetostrictive coefficient	$27 \cdot 10^6$
curie temperature (°C)	394	density (g/cm ³)	7.25
crystallization temperature (°C)	478	resistivity (μΩ-cm)	114
hardness (kg/mm ²)	980	coercive force (A/m)	<3.8

◆ Product code description

<u>J</u>	<u>1k101</u>	<u>250</u>	<u>26</u>	<u>2</u>
shear	Amorphous material	Bandwidth (Including a decimal)	Bandwidth	Thickness deviation

product specification	ribbon width(mm)	ribbon thickness(μm)
J1K101030262	3	26
J1K101035262	3.5	26
J1K101045262	4.5	26
J1K101050262	5	26
J1K101060262	6	26
J1K101065262	6.5	26
J1K101080262	8	26
J1K101100262	10	26
J1K101150262	15	26
J1K101200262	20	26
J1K101250262	25	26
J1K101300262	30	26
J1K101350262	35	26
J1K101400262	40	26
J1K101450262	45	26
J1K101500262	50	26
J1K101550262	55	26
J1K101600262	60	26
J1K101650262	65	26
J1K101700262	70	26
J1K101800262	80	26
J1K1011200262	120	26
J1K1011420262	142	26
J1K1011700262	170	26
J1K1012130262	213	26

Marks:ribbon thickness±2μm

IRON-BASED NANOCRYSTAL STRIP

◆ Application area

Precision mutual inductor iron core, high frequency common mode inductor core, leakage protection switch transformer core, ring iron core for small switching power supply transformer

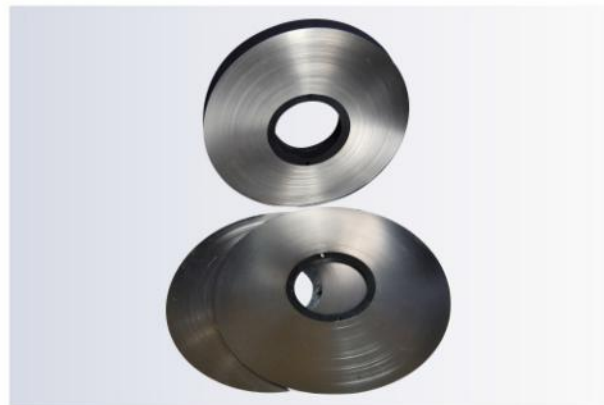
◆ Physical properties of the iron-based amorphous alloy

Saturated magnetic induction intensity BS (T)	1.25	density (g/cm ³)	7.8
Curie temperature (°C)	570	crystallization temperature (°C)	510
Hvhardness	880	saturation magnetostriction coefficient	2*10 ⁻⁶

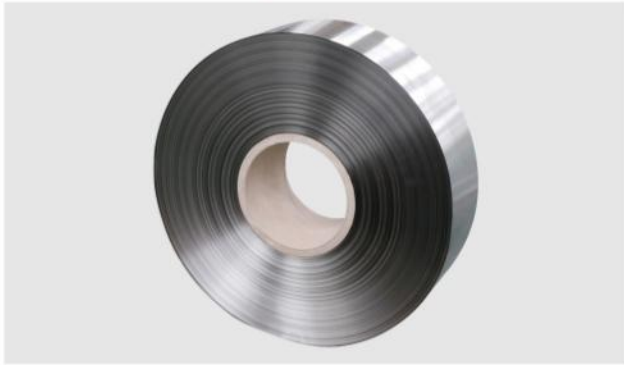
◆ Product specifications

specifications	Strip width(mm)	strip thickness(mm)
5mm and below	±0.1	±0.0026
5~15mm	±0.1	±0.002
15~25mm	±0.1	±0.002
25mm~60mm	±0.1	±0.002

◆ Product display



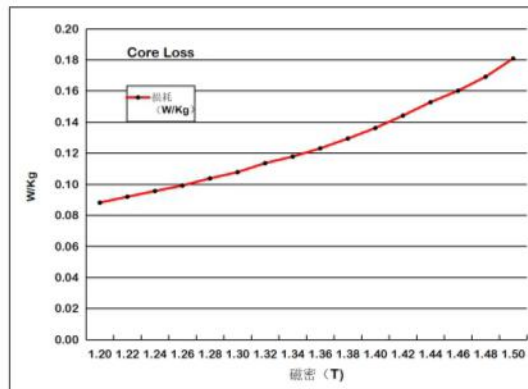
◆ Product display



curve graph for strip (142/170)

Core Loss (W/Kg)

(T)	(W/Kg)
1.20	0.0880
1.22	0.0918
1.24	0.0955
1.26	0.0990
1.28	0.1036
1.30	0.1076
1.32	0.1134
1.34	0.1176
1.36	0.1229
1.38	0.1292
1.40	0.1360
1.42	0.1440
1.44	0.1526
1.46	0.1600
1.48	0.1690
1.50	0.1807



励磁功率 (VA/Kg)

(T)	(VA/Kg)
1.20	0.0980
1.22	0.1027
1.24	0.1075
1.26	0.1126
1.28	0.1187
1.30	0.1239
1.32	0.1326
1.34	0.1382
1.36	0.1461
1.38	0.1567
1.40	0.171
1.42	0.1858
1.44	0.2105
1.46	0.237
1.48	0.2893
1.50	0.3809

