

# POWER CORE INDUSTRIES™

**(\*\*) CRNGO**

**DELIVERING YOUR DEMANDS**

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The non-oriented electrical steel commonly known as CRNGO, features magnetic properties similar as GOES in the rolling direction but also in other directions, which increases iron loss. They are widely used for core materials of rotating machines ranging from large-size power generators to small-size precision electric motors. They are also desirable for iron core of small-size Power transformers.

CRNGO Grades and Tech DATA(ref : PES)

Grade	Thickness mm	Max Core Loss At 1.5T W/KG	Lamination Factor Min%
35M270	0.35	2.70	95
50M470	0.50	4.70	96
65M600	0.65	6.00	97

Standard Loss Chart of Different Origin Grades

Thickness mm (inch)	POSCO	JIS	ASTM	EN
	(2006) w/kg 15/50	JIS C 2552 (2000) w/kg 15/50	(1999) w/kg 15/60	EN10106 (1995) w/kg 15/50
0.35 (0.0138)	35PN210 2.10	35A210 2.10		
	35PN230 2.30	35A230 2.30		M235-35A 2.35
	35PN250 2.50	35A250 2.50		M250-35A 2.50
	35PN270 2.70	35A270 2.70	36F145 3.20	M270-35A 2.70
	35PN300 3.00	35A300 3.00	36F155 3.42	M300-35A 3.00
	35PN360 3.60	35A360 3.60	36F175 3.86	
	35PN440 4.40	35A440 4.40	36F205 4.52	
0.50 (0.0197)	50PN250 2.50	50A230 2.30		M250-50A 2.50
	50PN270 2.70	50A250 2.50		M270-50A 2.70
	50PN290 2.90	50A270 2.70		M290-50A 2.90
	50PN310 3.10	50A290 2.90	47F165 3.64	M310-50A 3.10
	50PN350 3.50	50A310 3.10	47F180 3.97	M350-50A 3.50
	50PN400 4.00	50A350 3.50	47F200 4.41	M400-50A 4.00
	50PN470 4.70	50A400 4.00	47F210 4.63	M470-50A 4.70
	50PN600 6.00	50A470 4.70	47F240 5.29	M600-50A 6.00
	50PN700 7.00	50A600 6.00		M700-50A 7.00
	50PN800 8.00	50A700 7.00	47F400 8.82	M800-50A 8.30
	50PN1000 10.00	50A800 8.00	47F450 9.92	
	50PN1300 13.00	50A1000 10.00		M1000-50A 10.00
		50A1300 13.00		