

The silicon steel product of Baosteel can be used in electrical equipment manufacture of medium and small industrial electric motors, compressors for household appliances, power transformers, welding machine transformers and current regulators. Baosteel can also provide semi-organic and inorganic coatings for different applications.

Reference values

Typical values available upon request

Nominal thickness mm		Conventional density kg/dm ³	Max core loss value P15/50 - W/kg	Min induction B50 T
0.35	B35A210	7.60	2.10	1.62
	B35A230	7.60	2.30	1.62
	B35A250	7.60	2.50	1.62
	B35A270	7.65	2.70	1.62
	B35A300	7.65	3.00	1.62
	B35A360	7.65	3.60	1.63
	B35A440	7.70	4.40	1.64
	B35A550	7.75	5.50	1.64
0.50	B50A230	7.60	2.30	1.62
	B50A250	7.60	2.50	1.62
	B50A270	7.60	2.70	1.62
	B50A290	7.60	2.90	1.62
	B50A310	7.65	3.10	1.62
	B50A350	7.65	3.50	1.62
	B50A400	7.65	4.00	1.63
	B50A470	7.70	4.70	1.64
	B50A530	7.70	5.30	1.65
	B50A600	7.75	6.00	1.66
	B50A700	7.80	7.00	1.70
	B50A800	7.80	8.00	1.70
	B50A1000	7.85	10.00	1.70
	B50A1300	7.85	13.00	1.70
0.65	B65A470	7.65	4.70	1.64
	B65A600	7.75	6.00	1.64
	B65A700	7.75	7.00	1.65
	B65A800	7.80	8.00	1.69
	B65A1000	7.80	10.00	1.69
	B65A1300	7.85	13.00	1.69
0.35	B35AH230	7.65	2.30	1.66
	B35AH250	7.65	2.50	1.67
	B35AH300	7.70	3.00	1.69
0.50	B50AH300	7.65	3.00	1.67
	B50AH350	7.70	3.50	1.70
	B50AH470	7.75	4.70	1.72
	B50AH600	7.75	6.00	1.72
	B50AH800	7.80	8.00	1.74

Other qualities available upon request

Core loss: consumed power in a sample of iron core at unit mass under specified frequency f and specified magnetic induction intensity B_m . Magnetic flux density peak value: the magnetic strength peak value of an iron core specimen in demagnetization condition at spot frequency when the peak value of AC magnetic field reaches certain fixed value.

	A-Coating	H-Coating	K-Coating
Coating type	semi organic	semi organic	semi organic
Composition	inorganic, mainly organic, resin included	inorganic, mainly organic, resin included	inorganic, mainly organic, resin included
Thickness	abt. 0.3 µm	abt. 0.7 µm	abt. 0.5 µm
Heat resistance	800°C heat resistance in inoxidate atmosphere, eliminating stress by annealing	inapplicable to eliminate stress by annealing	750°C heat resistance in inoxidate atmosphere, eliminating stress by annealing
Cold resistance	Freon resistance R22, R134a without change	Freon resistance R22, R134a without change	Freon resistance R22, R134a without change
Corrosion resistance	good	excellent	excellent

Organic coating "Z" and Extra Thick coating also available upon request

Reference table of standards

Thickness mm	Q/BQB480		JIS C2552-86		AISI	EN10106	
	Designation	Core loss W/kg at 1.5T/50 Hz	Designation	Core loss W/kg at 1.5T/50 Hz	Designation	Designation	Core loss W/kg at 1.5T/50 Hz
0.35	B35A230	2.30	35A230	2.30		M235-35A	2.35
	B35A250	2.50	35A250	2.50	M-15	M250-35A	2.50
	B35A270	2.70	35A270	2.70	M-19	M270-35A	2.70
	B35A300	3.00	35A300	3.00	M-22/M-27	M300-35A	3.00
	B35A440	4.40	35A440	4.40			
0.50	B50A250	2.50	50A250	2.50		M250-50A	2.50
	B50A270	2.70	50A270	2.70		M270-50A	2.70
	B50A290	2.90	50A290	2.90	M-15	M290-50A	2.90
	B50A310	3.10	50A310	3.10	M-19	M310-50A	3.10
	B50A350	3.50	50A350	3.50	M-36	M350-50A	3.50
	B50A400	4.00	50A400	4.00	M-43	M400-50A	4.00
	B50A470	4.70	50A470	4.70	M-45	M470-50A	4.70
	B50A530	5.30				M530-50A	5.30
	B50A600	6.00	50A600	6.00		M600-50A	6.00
	B50A700	7.00	50A700	7.00	M-47	M700-50A	7.00
	B50A800	8.00	50A800	8.00		M800-50A	8.00
	B50A1000	10.00	50A1000	10.00		M940-50A	9.40

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