

# EN 10106

## Electrical steel strip standard grades

Denomination acc. to	Core loss max. at	Magnetic polarisation J [T] min. in an alternating field with a magnetic field intensity of			Waelzholz production averages			Density <sup>1)</sup>	Core loss <sup>2)</sup> at max.
		1.5 T / 50 Hz	2,500	5,000	10,000	Yield strengt	Tensile strength		
EN 10027-1	EN 10027-2	[W/kg]	[A/m]	[A/m]	[A/m]	[MPa]	[MPa]	[kg/dm <sup>3</sup> ]	[W/kg]

### Nominal thickness: 0.35 mm

M235-35A <sup>3)</sup>	1.0890	2.35	1.49	1.60	1.70	430	560	215	7.60	0.95
M250-35A	1.0800	2.50	1.49	1.60	1.70	360	510	200	7.60	1.00
M270-35A	1.0801	2.70	1.49	1.60	1.70	350	500	190	7.65	1.10
M300-35A	1.0804	3.00	1.49	1.60	1.70	345	490	170	7.65	1.20
M330-35A	1.0803	3.30	1.49	1.60	1.70	335	480	155	7.65	1.30

### Nominal thickness: 0.50 mm

M250-50A <sup>3)</sup>	1.0891	2.50	1.49	1.60	1.70	430	560	215	7.60	1.05
M270-50A	1.0806	2.70	1.49	1.60	1.70	360	510	200	7.60	1.10
M290-50A	1.0807	2.90	1.49	1.60	1.70	350	500	190	7.60	1.15
M310-50A	1.0808	3.10	1.49	1.60	1.70	345	490	180	7.65	1.25
M330-50A	1.0809	3.30	1.49	1.60	1.70	335	480	160	7.65	1.35
M350-50A	1.0810	3.50	1.50	1.60	1.70	330	475	155	7.65	1.50
M400-50A	1.0811	4.00	1.53	1.63	1.73	325	465	150	7.70	1.70
M470-50A	1.0812	4.70	1.54	1.64	1.74	320	460	145	7.70	2.00
M530-50A	1.0813	5.30	1.56	1.65	1.75	315	450	140	7.70	2.30
M600-50A	1.0814	6.00	1.57	1.66	1.76	310	440	135	7.75	2.60
M700-50A	1.0815	7.00	1.60	1.69	1.77	300	430	130	7.80	3.00
M800-50A	1.0816	8.00	1.60	1.70	1.78	295	420	125	7.80	3.60
M940-50A	1.0817	9.40	1.62	1.72	1.81	280	400	120	7.85	4.20

### Nominal thickness: 0.65 mm

M310-65A <sup>3)</sup>	1.0892	3.10	1.49	1.60	1.70	430	560	215	7.60	1.25
M330-65A	1.0819	3.30	1.49	1.60	1.70	350	500	190	7.60	1.35
M350-65A	1.0820	3.50	1.49	1.60	1.70	345	485	175	7.60	1.50
M400-65A	1.0821	4.00	1.52	1.62	1.72	340	480	160	7.65	1.70
M470-65A	1.0823	4.70	1.53	1.63	1.73	335	475	155	7.65	2.00
M530-65A	1.0824	5.30	1.54	1.64	1.74	325	465	150	7.70	2.30
M600-65A	1.0825	6.00	1.56	1.66	1.76	315	450	140	7.75	2.60
M700-65A	1.0826	7.00	1.57	1.67	1.76	310	440	135	7.75	3.00
M800-65A	1.0827	8.00	1.60	1.70	1.78	300	430	130	7.80	3.60
M1000-65A	1.0829	10.00	1.61	1.71	1.80	280	400	120	7.80	4.40

### Nominal thickness: 1.00 mm

M600-100A	1.0893	6.00	1.53	1.63	1.72	340	485	180	7.60	2.60
M700-100A	1.0894	7.00	1.54	1.64	1.73	330	475	160	7.65	3.00
M800-100A	1.0895	8.00	1.56	1.66	1.75	320	460	150	7.70	3.60
M1000-100A	1.0896	10.00	1.58	1.68	1.76	295	420	125	7.80	4.40
M1300-100A	1.0897	13.00	1.60	1.70	1.78	280	400	120	7.80	5.80

<sup>1)</sup> Other density values upon agreement. <sup>2)</sup> Not obligatory acc. to DIN EN 10106. <sup>3)</sup> Grades upon request.