

Grain oriented electrical steel strip and sheet delivered in fully processed state according to ČSN EN 10107

Commercial internal grade	Nominal thickness (mm)	Maximum specific total loss (W/kg) at 50 Hz and at		Minimum magnetic polarization for H = 800 A/m (T)
		1,5T	1,7T	
M100-23S*	0,23	-	1,00	1,80
M110-23S*		0,73	1,10	1,78
M120-23S*		0,77	1,20	1,78
M105-27S*	0,27	-	1,05	1,80
M110-27S		0,77	1,10	1,80
M120-27S		0,80	1,20	1,78
M130-27S		0,85	1,30	1,78
M110-30S*	0,30	-	1,10	1,80
M120-30S		0,83	1,20	1,80
M130-30S		0,85	1,30	1,78
M140-30S		0,92	1,40	1,78
M150-30S		0,97	1,50	1,75
M135-35S	0,35	0,97	1,35	1,80
M145-35S		1,03	1,45	1,78
M155-35S		1,07	1,55	1,78
M165-35S		1,11	1,65	1,75

* based on agreement only

These grades can be laser-treated. The requirement to supply steel strictly without laser processing must be particularly specified in the order.

Grain oriented electrical steel strip and sheet delivered in fully processed state (conventional products with improved losses) according to VP 02/23 (internal standard)

Commercial internal grade	Nominal thickness (mm)	Maximum specific total loss (W/kg) at 50 Hz and at		Minimum magnetic polarization for H = 800 A/m (T)
		1,5T	1,7T	
AM105-23S*	0,23	-	1,05	1,85
AM127-23S*	0,23	-	1,27	1,78
AM114-27S	0,27	-	1,14	1,85
AM140-27S	0,27	-	1,40	1,78
AM117-30S	0,30	-	1,17	1,85
AM125-35S	0,35	-	1,25	1,85

These grades can be laser-treated. The requirement to supply steel strictly without laser processing must be particularly specified in the order.

Grain oriented electrical steel strip and sheet delivered in fully processed state (conventional products with refined domains by laser treatment) according to VP 01/23 (internal standard)

Commercial internal grade	Nominal thickness (mm)	Maximum specific total loss (W/kg) at 50 Hz and at		Minimum magnetic polarization for H = 800 A/m (T)
		1,5T	1,7T	
AM100-23LS*	0,23	-	1,00	1,84
AM105-23LS*		-	1,05	1,84
AM110-23LS*		-	1,10	1,84
AM105-27LS	0,27	-	1,05	1,84
AM110-27LS		-	1,10	1,84
AM110-30LS	0,30	-	1,10	1,84
AM115-30LS		-	1,15	1,84

* based on agreement only

Magnetic properties measured by SST (plate meter). Laser processed grades are intended solely for the manufacture of transformers whose technological process does not require annealing at temperatures exceeding 500°C.

Grain oriented electrical steel strip and sheet delivered in fully processed state

Standard	Thickness (mm)	Sheets, coil width (mm)	Strips width (mm)	Sheet length (mm)
ČSN EN 10107 VP 01/23 VP 02/23	0,23	850 – 970* 600 – 849**	30** - 599	700 – 3000**
	0,27			
	0,30			
	0,35			

* width 970 mm is delivered in preference

** based on agreement only

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Cold rolled steel strip, sheet and narrow strips for deep drawing

Product	Quality	Standard	Thickness (mm)	Sheets, coil width (mm)	Strips width (mm)	Sheet length (mm)
Deep-drawing steels	DC01	ČSN EN 10130	0,40 – 3,00	600 - 1020	60 - 599	1000 – 3000*
	DC03					
	DC04					
	DC01 LC; C290 – C690	ČSN EN 10139+A1	0,40 – 3,00	600 - 1020	60 - 599	-
	DC03 LC; C290 – C690					
	DC04 LC; C290 – C690					

* length up to 4000 mm based on agreement only

These steel grades are used for deep and very deep drawing forming process.

Cold rolled structural steel strip, sheet and narrow strips

Product	Quality	Standard	Thickness (mm)	Sheets, coil width (mm)	Strips width (mm)	Sheet length (mm)
Structural steels	11375	ČSN 41 1375	0,80 – 3,00	600 - 1020	60 - 599	1000 – 3000*
	11523	ČSN 41 1523				

* length up to 4000 mm based on agreement only

These structural steels are suitable for welding, used in the metalworking industry and in the building industry.

Hot rolled steel strip, sheet and narrow strips – pickled

Product	Quality	Standard	Thickness (mm)	Sheets, coil width (mm)	Strips width (mm)	Sheet length (mm)
Pickled hot rolled strip, sheet and strips made of deep-drawing and structural steels	DD11	ČSN EN 10111	1,80 – 4,00 (1,40 – 1,70)*	600 – 1040	60 - 599	1000 - 3000
	DD12					
	DD13					
	S235JR	ČSN EN 10025				
	S275JR					
	S355JR					

* based on agreement only

Cold rolled micro-alloyed steel strip, sheet and narrow strips

Product	Quality	Standard	Thickness (mm)	Sheets, coil width (mm)	Strips width (mm)	Sheet length (mm)
Micro-alloyed steels	HC 380LA	ČSN EN 10268+A1	0,80 – 3,00	600 – 1020	60 - 599	1000 - 3000
	HC 420LA					

Pickled hot rolled micro-alloyed steel strip, sheet and narrow strips

Product	Quality	Standard	Thickness (mm)	Sheets, coil width (mm)	Strips width (mm)	Sheet length (mm)
Micro-alloyed steels	S315MC	ČSN EN 10149-2	1,80 – 4,00	600 – 1040	60 - 599	1000 - 3000
	S355MC					
	S420MC					
	S460MC					

High strength micro-alloyed steels (HSLA) are characterized by high ductility, fine grain structure and low carbon content. They are used in both the construction and automotive industries.

Packaging binding strips

Product	Quality	Standard	Thickness (mm)	Sheets, coil width (mm)	Strips width (mm)	Mechanical properties
Steel binding strips	11343.25	ČSN 41 1343	0,40 – 1,00	-	10 – 32	Rm 590 – 785MPa, A5 min 3%
	11343.23					Rm 375 – 520MPa
	11343.29					Rm min 690MPa, A5 min 3%
	11523.29	ČSN 41 1523				Rm min 800MPa, A5 min 8%
	DC01+C590	ČSN EN 10139				Rm min 590MPa
	DC01+C690					Rm min 690MPa
	Type 1	ČSN EN 13246				Rm min 650MPa
	Type 2.1					Rm min 750 MPa

It is used to package, bundles, pallets of various kinds of products using wrapping machines or hand-held machines.

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