

BENTELER SMARTCUT®

BENTELER SMARTCUT® free cutting steel tubes are characterized by an increased sulphur content of at least 0.10 % and greatly improved machinability.

E355 Plus E470 Plus	<ul style="list-style-type: none"> mechanical requirements for E355/E470 fulfilled guaranteed sulphur content 0.10 – 0.14 %
SMARTCUT 360 SMARTCUT 420 SMARTCUT 550 SMARTCUT 700	<ul style="list-style-type: none"> improved mechanical characteristics exceeds common standards guaranteed sulphur content 0.10 – 0.18 %
36SMn14 11SMn30	<ul style="list-style-type: none"> analysis and mechanical values according to ISO 683-4 guaranteed sulphur content up to 0.33 %

min. 0,10 % sulphur

PRODUCT DATA

hot/cold tube	material	delivery condition	tensile test				
			R _{eH} [MPa]		R _m [MPa]		A [%]
			WT ≤ 16mm	WT > 16 - 25 mm	WT ≤ 16 mm	WT > 16 - 25 mm	
hot	E355 Plus	+AR, +N, +SR	≥ 355	≥ 345	≥ 490		≥ 20
	E470 Plus	+AR, +N, +SR	≥ 470	≥ 430	≥ 650	≥ 600	≥ 17
	SMARTCUT 360	+AR, +N, +SR	≥ 360	≥ 345	≥ 490		≥ 21
	SMARTCUT 420	+AR, +N, +SR	≥ 420	≥ 380	620 - 860	600 - 850	≥ 15
	SMARTCUT 550	+QT	≥ 550	≥ 500	≥ 700	≥ 650	≥ 15
	SMARTCUT 700	+QT	≥ 700	≥ 600	≥ 950	≥ 850	≥ 11
cold	E355 Plus	+N	≥ 355		490 - 630		≥ 22
		+SR	≥ 450		≥ 580		≥ 10
	SMARTCUT 360	+N	≥ 360		520 - 630		≥ 25
		+SR	≥ 560		≥ 650		≥ 14
	SMARTCUT 420	+A	≥ 400		580 - 680		≥ 20
		+N	≥ 420		650 - 720		≥ 18
		+SR	≥ 650		≥ 740		≥ 14
	SMARTCUT 700	+QT	≥ 700		≥ 800		≥ 14

Dimensions and other mechanical values (e.g. hardness, KV) as well as delivery condition +C on request.