



B500B - GERMANY

STANDARD: DIN 488:2009-2010

PRODUCT TYPE: BETONSTABSTAHL B500B NACH DIN 488

DIMENSION: \varnothing mm 8 - 10 - 12 - 14 - 16 - 20 - 25 - 28 - 32 - 40

CHEMICAL COMPOSITION (%)

	C	S	P	Cu	N	Ceq $\varnothing \leq 28$	Ceq $\varnothing > 28$
Cast analysis	0,22	0,050	0,050	0,60	0,012	0,50	0,47
Product analysis	0,24	0,055	0,055	0,65	0,014	0,52	0,49

MECHANICAL PROPERTIES

	Min	MAX
UPPER YIELD STRENGTH R_{eH} (MPa)	500	650
R_m/R_{eH}	1,08	
PERCENTAGE TOTAL ELONGATION AT MAXIMUM FORCE A_{gt} (%)	5,0	

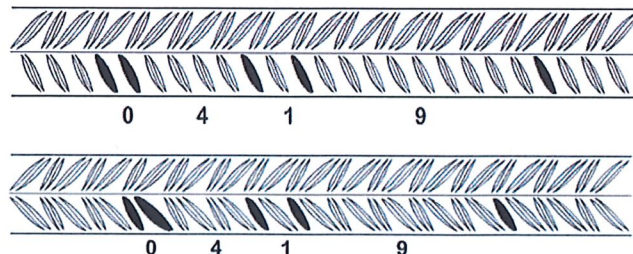
GEOMETRY

DEVIATION FROM NOMINAL MASS (%)	-4	+6
RELATIV RIB AREA f_R	$\varnothing=8$	0,045
	$\varnothing=10$	0,052
	$\varnothing \geq 12$	0,056

BEND AND RE-BEND

Angle of bend = 90°	Ageing 1 h (-0,+15 min) at 100°C $\pm 10^\circ$ C	Re-bend angle $\geq 20^\circ$
Bend mandrel		For $\varnothing 40$ only bend at 90°
$\varnothing \leq 16$ mm 5 \varnothing	16 < $\varnothing \leq 28$ mm 8 \varnothing	28 < $\varnothing \leq 32$ mm 10 \varnothing
		$\varnothing = 40$ mm 6 \varnothing

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