



**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	

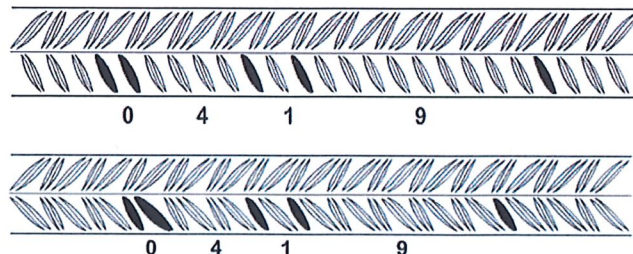
GEOMETRY

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

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