



**B500B – CZECH REPUBLIC**

STANDARD: ČSN 42 0139

PRODUCT TYPE: OCEL PRO VÝZTUŽ DO BETONU B500B

DIMENSION:  $\varnothing$  mm 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 25 - 28 - 30 - 32

CHEMICAL COMPOSITION (%)

	C	S	P	Cu	N	Ceq	It is permitted to exceed the maximum values for carbon by 0,03 % by mass, provided that the carbon equivalent value is decreased by 0,02 % by mass
Cast analysis	0,22	0,050	0,050	0,60	0,012	0,50	
Product analysis	0,24	0,055	0,055	0,65	0,014	0,52	

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	

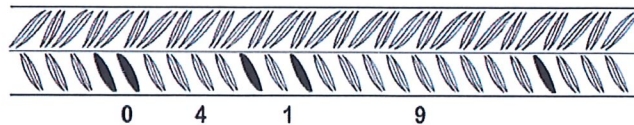
DIMENSIONS, MASS AND TOLERANCES

DEVIATION FROM NOMINAL MASS (%)	$\varnothing \leq 8$	$\pm 6,0$
	$\varnothing > 8$	$\pm 4,5$
RELATIVE RIB AREA $F_R$	$\varnothing = 8 \div 10 \div 12$	$\geq 0,040$
	$\varnothing > 12$	$\geq 0,056$

BEND AND REBEND TEST

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

MARKING



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