

MATERIAL GRADES OF STATICALLY CAST ROLLS



• Chemical composition material B10:

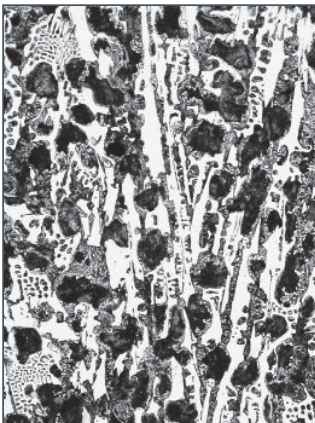
Chemical composition [%]								Barrel Hardness [HSc]
C	Mn	Si	Pmax	Smax	Ni	Cr	Mo	
3,0-3,6	0,4-0,9	1,2-2,0	0,1	0,015	2,0-2,8	0,3-0,4	0,2-0,5	60-64

• Mechanical properties of barrel material (min.):

TENSILE STRENGTH [MPa]	450-550
BENDING STRENGTH [MPa]	500-750

• Microstructure:

100x



500x



• Characteristic microstructure:

Perlitic matrix and cementite, transformed ledeburite and globular graphite.

• Applications:

Blooming mill rolls, roughing rolls, billet rolls, rolls for wire mill

Hardness penetration of the rolls, material B10

