

# MATERIAL GRADES OF STATICALLY CAST ROLLS



• Chemical composition material B8:

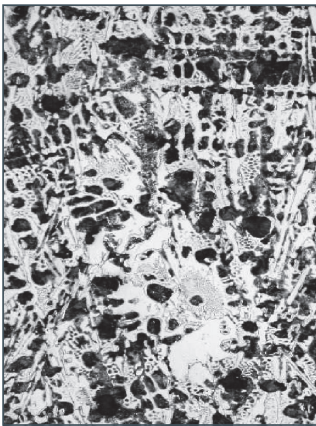
Chemical composition [%]								Barrel Hardness
C	Mn	Si	Pmax	Smax	Ni	Cr	Mo	[HSc]
2,9-3,5	0,4-0,9	1,2-2,2	0,1	0,015	1,0-2,0	0,15-0,25	-	45-55

• Mechanical properties of barrel material (min.):

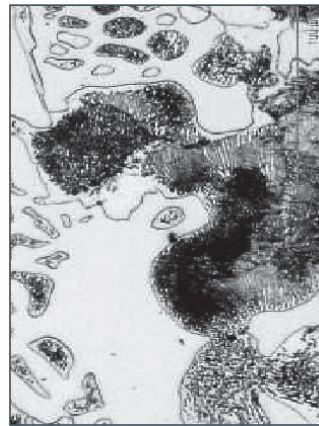
TENSILE STRENGTH [MPa]	400-500
BENDING STRENGTH [MPa]	650-800

• Microstructure:

100x



500x



• Characteristic microstructure:

Perlitic matrix and cementite, transformed ledeburite and globular graphite.

• Applications:

blooming mill rolls, roughing rolls

Hardness penetration of the rolls, material B8

