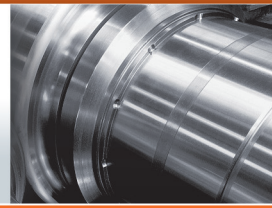


# MATERIAL GRADES OF STATICALLY CAST ROLLS



• Chemical composition material B7:

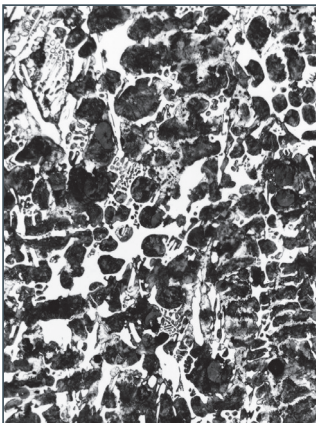
Chemical composition [%]								Barrel Hardness [HSc]
C	Mn	Si	Pmax	Smax	Ni	Cr	Mo	
3,0-3,5	0,5-1,0	1,2-2,4	0,1	0,015	1,0-1,5	0,3-0,5	0,05-0,2	45-55

• Mechanical properties of barrel material (min.):

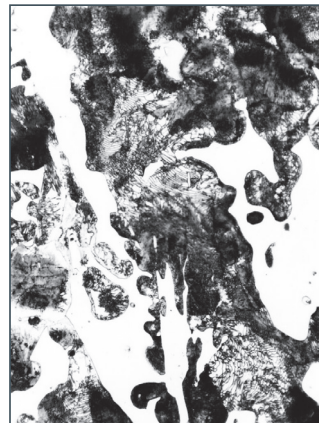
TENSILE STRENGTH [MPa]	400-550
BENDING STRENGTH [MPa]	650-850

• Microstructure:

100x



500x



• Characteristic microstructure:

Perlitic matrix and cementite, transformed ledeburite and globular graphite.

• Applications:

calibration rolls, vertical rolls

Hardness penetration of the rolls, material B7

