

MATERIAL GRADES OF STATICALLY CAST ROLLS



• Chemical composition material B5Ni:

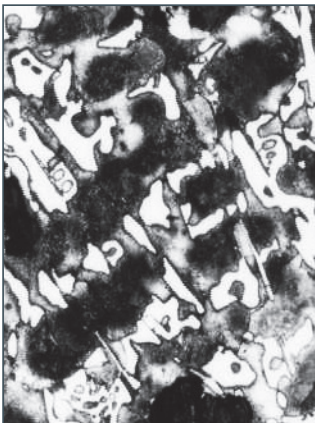
Chemical composition [%]								Barrel Hardness [HSc]
C	Mn	Si	Pmax	Smax	Ni	Cr	Mo	
3,0-3,2	0,65-0,75	1,8-1,9	0,1	0,015	1,0-1,1	0,09-0,15	0,0-0,2	47-55

• Mechanical properties of barrel material (min.):

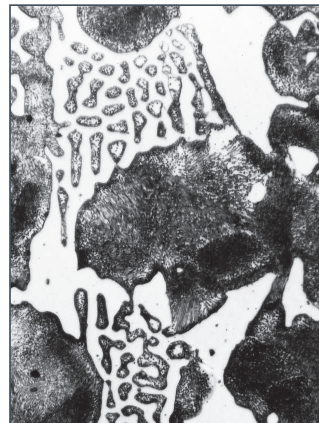
TENSILE STRENGTH [MPa]	400-500
BENDING STRENGTH [MPa]	700-850

• Microstructure:

100x



500x



• Characteristic microstructure:

Perlitic matrix and cementite, transformed ledeburite and globular graphite.

• Applications: stretching rolls

Hardness penetration of the rolls, material B5Ni

