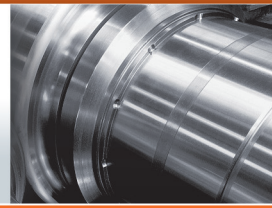


MATERIAL GRADES OF STATICALLY CAST ROLLS



• Chemical composition material V140TiNi:

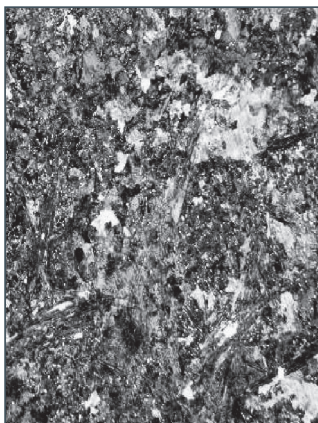
Chemical composition [%]									Barrel Hardness [HB]
C	Mn	Si	Pmax	Smax	Ni	Cr	Mo	Ti	
1,3-1,5	0,6-0,8	0,3-0,6	0,035	0,035	0,3-0,6	1,1-1,5	0,2-0,4	0,1-0,3	330-360

• Mechanical properties of barrel material (min.):

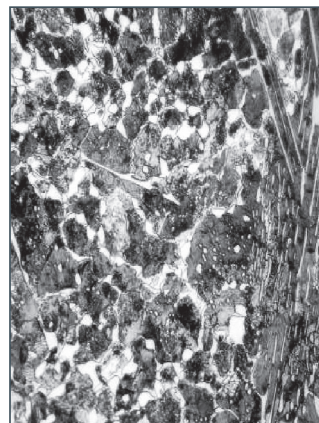
TENSILE STRENGTH [MPa]	720-920
BENDING STRENGTH [MPa]	850-1350

• Microstructure:

100x



500x



• Characteristic microstructure:

Perlitic matrix with finely distributed carbides and free graphite.

• Applications:
roughing rolls, billet rolls

