

# MATERIAL GRADES OF STATICALLY CAST ROLLS



- Chemical composition material V140Ti:

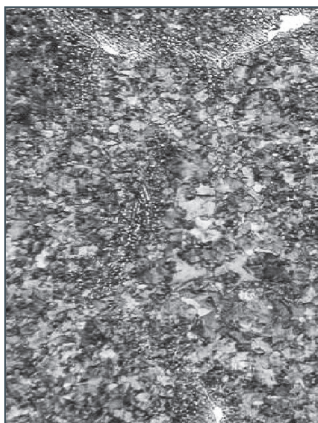
Chemical composition [%]									Barrel Hardness [HB]
C	Mn	Si	Pmax	Smax	Ni	Cr	Mo	Ti	
1,3-1,5	0,6-0,8	0,3-0,6	0,035	0,035	0,1-0,5	1,0-1,2	0,2-0,4	0,1-0,3	290-340

- Mechanical properties of barrel material (min.):

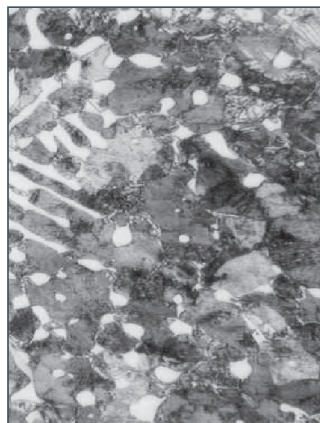
TENSILE STRENGTH [MPa]	700-900
BENDING STRENGTH [MPa]	950-1500

- Microstructure:

100x



500x



- Characteristic microstructure:

Perlitic matrix with finely distributed carbides and free graphite.

- Applications:  
roughing rolls, billet rolls

