

MATERIAL GRADES OF STATICALLY CAST ROLLS



• Chemical composition material V205:

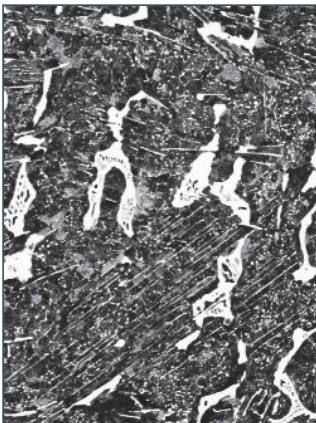
Chemical composition [%]									Barrel Hardness [HB]
C	Mn	Si	Pmax	Smax	Ni	Cr	Mo	Ti	
1,9-2,1	0,5-0,7	0,5-0,7	0,030	0,025	0,2-0,5	0,7-0,9	0,0-0,2	0,05-0,1	290-330

• Mechanical properties of barrel material (min.):

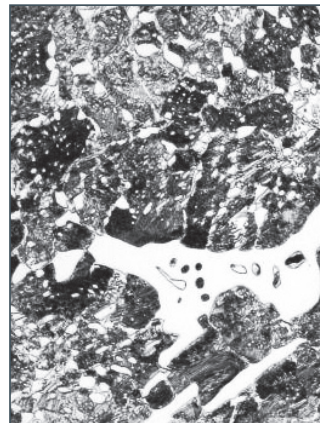
TENSILE STRENGTH [MPa]	420-620
BENDING STRENGTH [MPa]	670-890

• Microstructure:

100x



500x



• Characteristic microstructure:

Perlitic matrix with finely distributed carbides and transformed ledeburite and free graphite.

• Applications:

roughing rolls, billet rolls, universal rolls, vertical rolls

Hardness penetration of the rolls, material V205

