

# MATERIAL GRADES OF STATICALLY CAST ROLLS



• Chemical composition material Adamit:

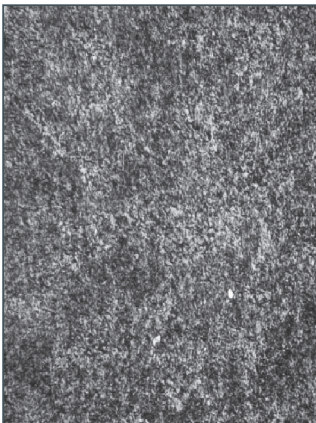
Chemical composition [%]									Barrel Hardness [HSc]
C	Mn	Si	Pmax	Smax	Ni	Cr	Mo	Ti	
1,4-1,8	0,6-0,9	0,6-0,9	0,025	0,025	0,3-0,6	0,8-1,2	0,4-0,8	-	46-54

• Mechanical properties of barrel material (min.):

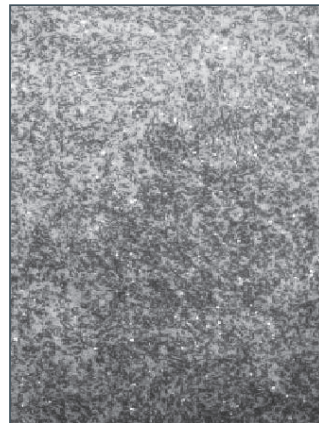
TENSILE STRENGTH [MPa]	650-850
BENDING STRENGTH [MPa]	750-950

• Microstructure:

100x



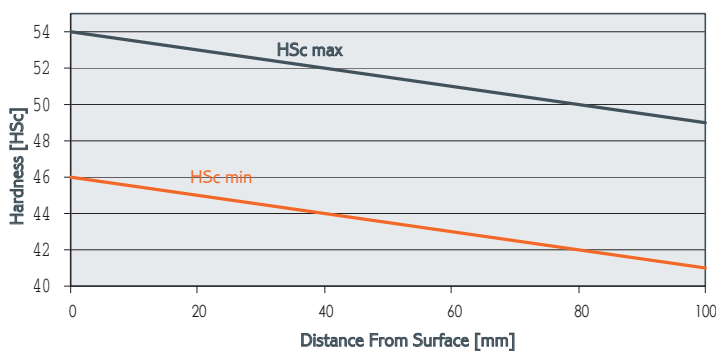
500x



• Characteristic microstructure:

Perlitic matrix with finely distributed carbides and free graphite.

Hardness penetration of the rolls, material Adamit



• Applications:  
vertical rolls