

# MATERIAL GRADES OF STATICALLY CAST ROLLS



• **Chemical composition material V215:**

Chemical composition [%]									Barrel Hardness [HB]
C	Mn	Si	Pmax	Smax	Ni	Cr	Mo	Ti	
2,0-2,3	1,1-1,5	0,6-0,9	0,030	0,025	1,1-1,5	1,2-1,5	0,2-0,3	0,05-0,1	340-380

• **Mechanical properties of barrel material (min.):**

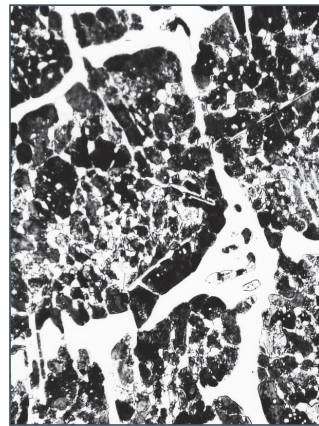
TENSILE STRENGTH [MPa]	400-600
BENDING STRENGTH [MPa]	650-850

• **Microstructure:**

100x



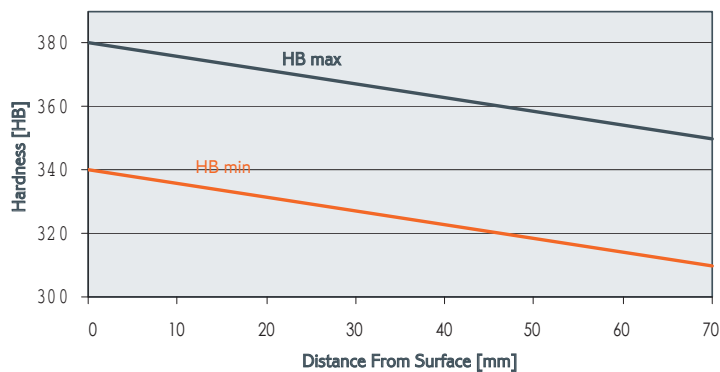
500x



• **Characteristic microstructure:**

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

Hardness penetration of the rolls, material V215



• **Applications:**

roughing rolls, billet rolls