

# MATERIAL GRADES OF STATICALLY CAST ROLLS



• **Chemical composition material B11:**

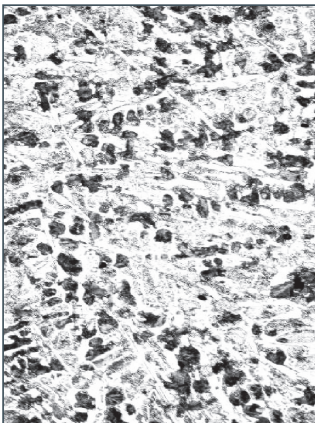
Chemical composition [%]								Barrel Hardness
C	Mn	Si	Pmax	Smax	Ni	Cr	Mo	[HSc]
3,0-3,6	0,4-0,9	1,1-2,0	0,1	0,015	2,5-3,5	0,6-0,7	0,3-1,2	67-73

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

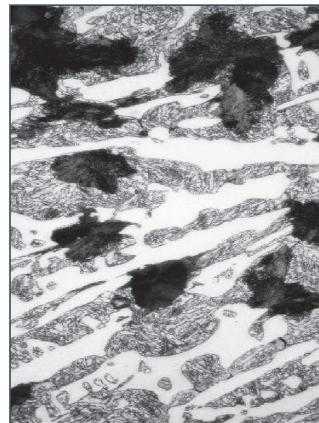
TENSILE STRENGTH [MPa]	230-400
BENDING STRENGTH [MPa]	470-570

• **Microstructure:**

100x



500x



• **Characteristic microstructure:**

Annealed martensite, cementite, transformed ledeburite and globular graphite.

• **Applications:**

finischer rolls section mill, rolls for wire rod mills

Hardness penetration of the rolls, material B11

