

MATERIAL GRADES OF STATICALLY CAST ROLLS



• **Chemical composition material D7:**

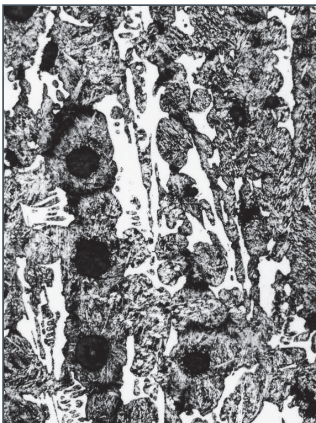
Chemical composition [%]								Barrel Hardness
C	Mn	Si	Pmax	Smax	Ni	Cr	Mo	[HSc]
2,95-3,2	0,4-0,6	1,3-1,4	0,1	0,015	4,1-4,3	0,05-0,1	0,8-0,9	59-67

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

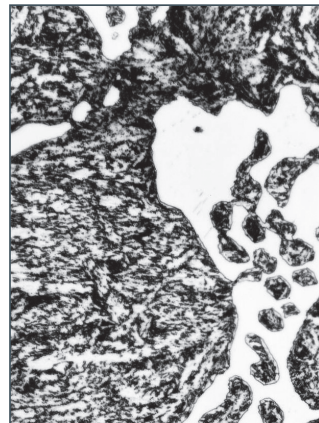
TENSILE STRENGTH [MPa]	500-700
BENDING STRENGTH [MPa]	900-1200

• **Microstructure:**

100x



500x



• **Characteristic microstructure:**

Annealed martensite, transformed ledeburite and globular graphite.

• **Applications:**
piercing rolls

Hardness penetration of the rolls, material D7

