

MATERIAL GRADES OF STATICALLY CAST ROLLS



- **Chemical composition material 428837:**

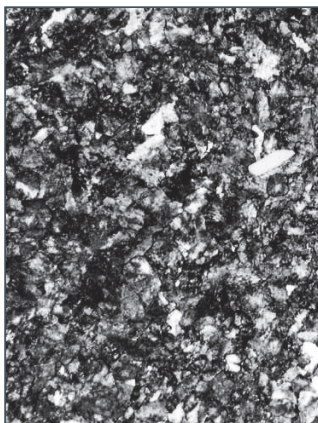
Chemical composition [%]								Barrel Hardness
C	Mn	Si	Pmax	Smax	Ni	Cr	W	[HB]
1,0-1,5	0,3-0,6	0,2-0,6	0,030	0,030	0,0-0,5	1,8-2,2	0,9-1,3	270-330

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

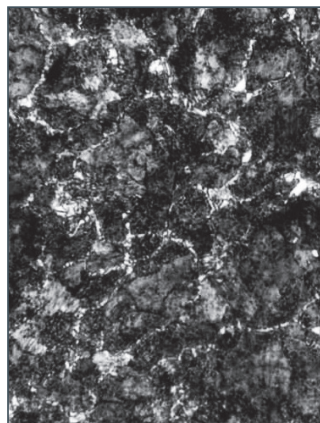
TENSILE STRENGTH [MPa]	700-850
YIELD LIMIT [MPa]	380-500
BENDING STRENGTH [MPa]	1150-1450

- **Microstructure:**

100x



500x



- **Characteristic microstructure:**

Perlitic matrix with finely distributed carbides.

- **Applications:**
pilger rolls