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Graphite cast steel rolls

Chemical Analysis

Grades	C	Si	Mn	P	S	Ni	Cr	Mo
GS140	1.3~1.5	1.3/1.6	0.5/1.0	≤0.035	≤0.03	0.2/0.8	0.4/1.0	0.5/1.0
GS150	1.4/1.6	1.0/1.7	0.6/1.0	≤0.035	≤0.03	0.2/1.0	0.6/1.0	0.6/1.0
GS160	1.5/1.7	0.5/1.5	0.6/1.0	≤0.035	≤0.03	0.6/1.5	0.6/1.0	0.6/1.0
GS190	1.8/2.0	0.8/1.5	0.6/1.0	≤0.035	≤0.03	1.0/2.0	0.6/1.0	0.6/1.0

Physical Properties

Designation of rolls	Barrel hardness (HSD)	Tensile strength (MPa)	Elongation (%)	Impact toughness (J/cm)
GS140	36~46	>500	≥1.0	≥4
GS150	40~50	>500	≥1.0	≥4
GS160	45~55	>500	≥0.5	≥4
GS190	50~60, 55~65	>500	≥0.5	≥4

Microstructure

Microstructure of working layer in the barrel: perlite + carbide/fine pearlite + small percentage bainite + carbide

Application

Roughing, intermediate stands of section mill and bar mill, roughing stands of high-speed wire-rod mill, roughing stands of hot strip mill, vertical rolls, back-up rolls sleeves, straightening rolls