

Roll Grade Descriptions

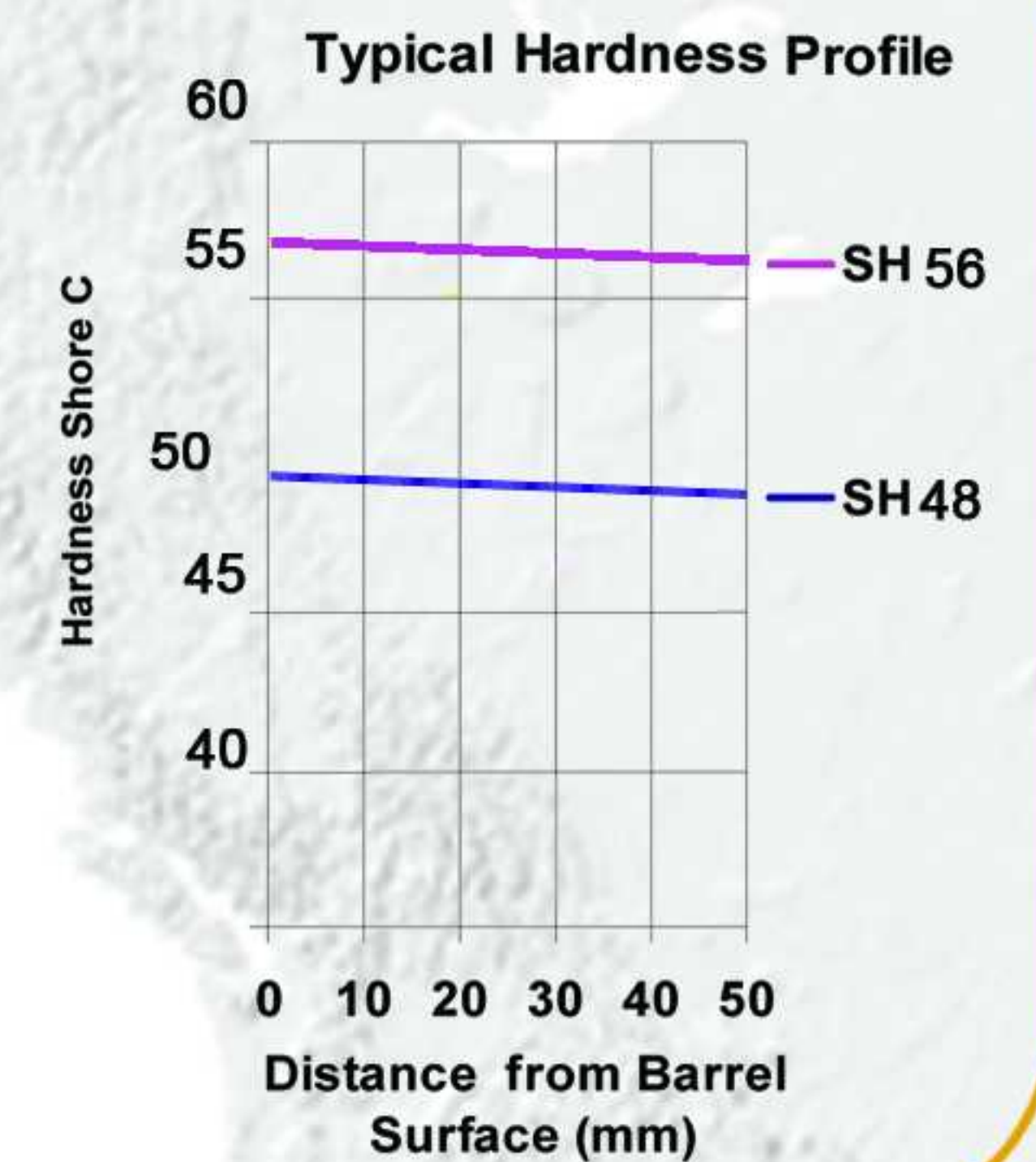
CSROLL
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● S ●

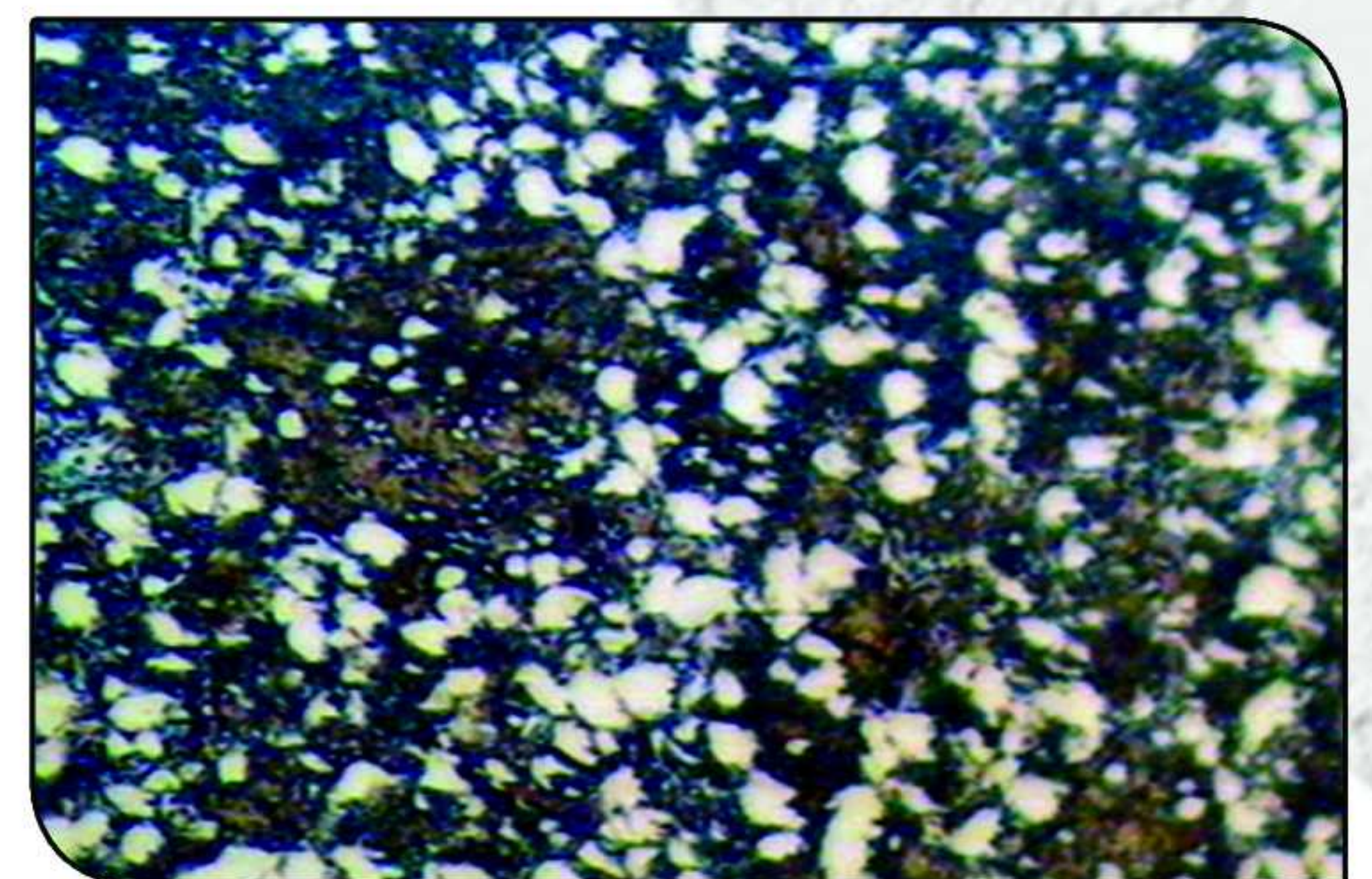
● Steel Base Rolls ●

Generally, roll made in this grade are cast steel. In this case homogenous distribution of carbides which is obtain by solidification and appropriately distributed in the matrix by heat treatment.

Steel base rolls are particularly suitable for operating under heavy load condition and good shock resistance and moderate wear properties make these rolls general selection for roughing and intermediate stands.



SH48-Heat treated Pearlitic Matrix with Secondary Carbides (X100)



SH58- Pearlitic Matrix with Secondary Carbides (X400)

Chemical Composition and Mechanical Properties for Pearlitic Rolls

Roll Grade	Barrels Hardness (Shc)	C (%)	Si (%)	Mn (%)	Cr (%)	Ni (%)	Mo (%)	Tensile Strength (N/mm) ²	Bending Strength (N/mm) ²
SH 44	44	1.4-2.0	0.3-0.5	0.6-1.2	1.2-1.4	0.4-1.4	0.2-0.5	400-600	700-1000
SH48	48	1.4-2.2	0.3-0.5	0.7-1.2	1.4-1.8	0.6-1.4	0.2-0.5	500-700	800-1100
SH52	52	1.4-2.2	0.3-0.5	0.7-1.2	1.4-1.8	0.6-1.6	0.2-0.5	500-700	800-1100
SH56	56	1.4-2.2	0.3-0.5	0.7-1.4	1.4-1.8	1.0-1.8	0.2-0.5	500-700	800-1100
SH48C	48	1.4-2.2	0.3-0.5	0.6-1.0	1.2-1.4	0.4-1.6	0.2-0.5	See Page A	
SH52C	52	1.4-2.2	0.3-0.5	0.8-1.2	1.4-1.8	0.8-1.8	0.2-0.5	See Page A	
SH56C	56	1.6-2.2	0.3-0.5	0.8-1.2	1.4-1.8	1.0-1.5	0.2-0.5	See Page A	
SH62C	62	1.6-2.2	0.3-0.5	0.8-1.2	1.4-1.8	1.0-2.0	0.2-0.5	See Page A	
SH66C	66	1.6-2.2	0.3-0.5	0.8-1.2	1.4-1.8	1.0-2.0	0.2-0.5	See Page A	

Note: Other Steel Grades, not specified in the table are producible on request.

