

# SCNP

## PEARLITIC NODULAR IRON

## CHARACTERISTICS



As the name implies, this alloy develops a pearlitic matrix in a microstructure including spheroidal graphite particles and M3C-type eutectic carbides uniformly distributed. The combination of these phases and microstructural constituents provide the cylinder with high mechanical strength together with high resistance to wear and thermal fatigue.

The versatility of this alloy makes it appropriate to comply with the general demands in roughing, intermediate and finishing stands. This is associated with the possibilities of combining wear resistance with very good mechanical properties and resistance to thermal fatigue.

## TABLE OF USES

	MILLS													
	Sheets		Tubes			Profiles			Bars			Universal		
SCNP	RSB	Edger	Plug.	Reller	Cal.	Rough.	Int.	Finish	Rough.	Int.	Finish	Edger	Horiz.	Vert.
50	•			•		•			•					
55	•	•		•		•	•		•					
60		•	•		•		•	•	•	•		•		
65			•		•		•	•		•	•	•	•	
68								•			•		•	•
70											•		•	•

## CHEMICAL COMPOSITION

C	Si	Mn	Cr	Ni	Mo	S	P
3.00	1.50	0.30	0.30	1.50	0.30	<	<
3.50	2.50	0.80	1.00	3.50	1.00	0.015	0.080

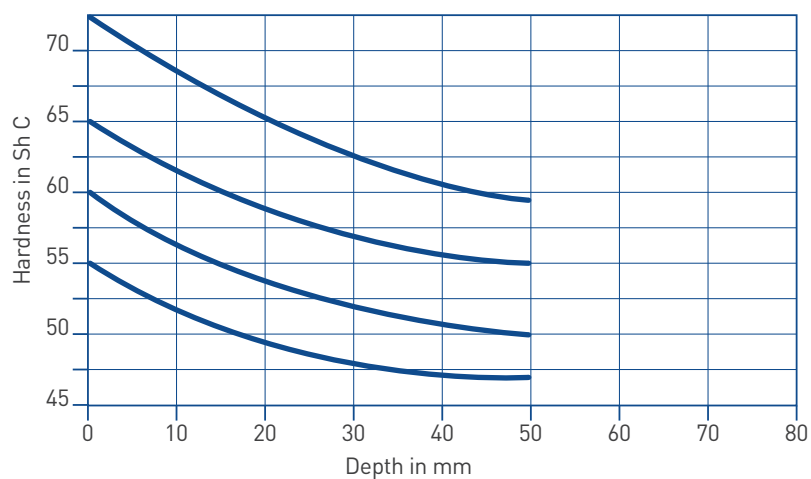
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PEARLITIC NODULAR IRON

## MECHANICAL CHARACTERISTICS

Tensile Strength (MPa)	350 – 600
Flexural Strength (MPa)	700 – 1000
Elongation (%)	1.0 – 2.0

## HARDNESS GRADIENT



## FINAL PRODUCT

