## SCNAC

ACICULAR NODULAR IRON

### CHARACTERISTICS



This quality represents nodular iron rolls with higher content of nickel and enriched with varying amounts of chromium and molybdenum, depending on the required hardness level. Its main feature is to obtain a matrix of low-temperature bainite transformation. This change in the microstructure of the matrix is responsible for the improved wear resistance and an increase of mechanical properties becoming between 20% and 50% higher than a pearlitic matrix nodular cylinder.

All our acicular nodular iron cylinders are heat treated, with the aim of maximizing the mechanical strength and increasing resistance to wear and fatigue.

Its general characteristics make this alloy suitable for a large number of applications. It is found in both roughing and finishing stands.

#### TABLE OF USES

MILLS													
	Profiles		Rails		Bars / Rods		Tubes		Universal				
SCNAC	Rough	Int.	Finish	Int.	Finish	Rough	Int.	Finish	Cont.	Calib.	Horiz.	Vert.	Edger
50	•	•				•			•				
55	•	•		•		•			•		•		
60			•		•	•	•		•	•	•		•
65			•		•		•	•	•	•		•	
70								•					

#### CHEMICAL COMPOSITION

С	Si	Mn	Cr	Ni	Мо	S	Р
3.00	1.50	0.30	0.10	3.00	0.50	<	<
3.50	2.50	0.80	0.50	4.50	1.50	0.015	0.080

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ACICULAR NODULAR IRON

CHARACTERISTICS	Tensile Strength (MPa)	550 - 750			
	Flexural Strength (MPa)	800 - 1100			
	Elongation (%)	1.0 – 2.0			
	45				
GRADIENT					
	50				
	45				
	400 20	40 60 80			
	Depth	in mm			
FINAL PRODUCT					

