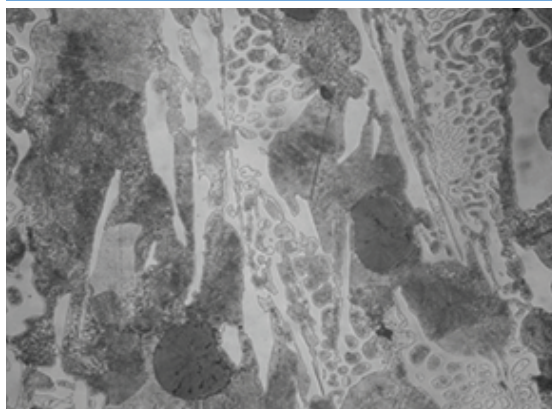


SCNPCRO

PEARLITIC NODULAR IRON
WITH CHROME

CHARACTERISTICS



In applications where improved wear resistance is required, especially in the case of cylinders with deep channels, an increase in the chromium content is used to satisfy this particular type of demands. This higher chromium content compared to the one of the SCNP quality enhances some properties, especially wear resistance, making this material suitable for intermediate and finishing stands for those products that require both deep as flat passes. As the chromium content increases, the amount of M3C carbides in the microstructure also increases along with hardness penetration.

TABLE OF USES

| SCNPCRO | MILLS | | | | | | | | | | | |
|---------|----------|------|---------|-------|------|--------|-------|------|--------|-----------|------|--------|
| | Profiles | | | Rails | | | Bars | | | Flat Bars | | |
| | Rough | Int. | Finish. | Rough | Int. | Finish | Rough | Int. | Finish | Rough | Int. | Finish |
| 58 | • | | | | • | | | | | | | |
| 60 | • | • | | | | • | | • | | | • | |
| 63 | | • | | | | • | | | • | | | • |
| 65 | | • | | | | | | | • | | | • |

CHEMICAL COMPOSITION

| C | Si | Mn | Cr | Ni | Mo | S | P |
|------|------|------|------|------|------|-------|-------|
| 3.00 | 1.00 | 0.30 | 0.50 | 2.50 | 0.20 | < | < |
| 3.50 | 2.00 | 1.00 | 1.50 | 3.50 | 0.50 | 0.015 | 0.080 |

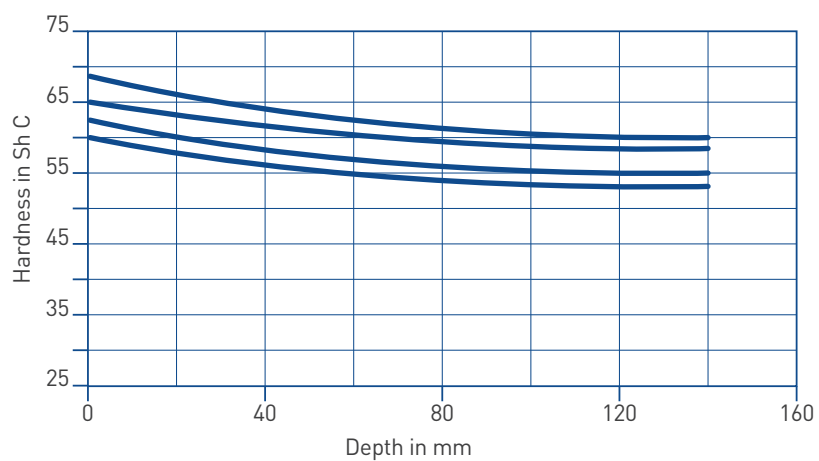
MECHANICAL CHARACTERISTICS

| | |
|----------------------------|-----------|
| Tensile Strength (MPa) | 350 – 600 |
| Flexural Strength (MPa) | 500 – 800 |
| Elongation (%) | 0.5 – 1.0 |

SCNPCRO

PEARLITIC NODULAR IRON
WITH CHROME

HARDNESS GRADIENT



FINAL PRODUCT

