

NIRA AC

Cast Nodular Iron

Chemical composition

	C	Mn	Si	Cr	Mo	Ni	W, V Nb
NIRA AC	3.0 4.0	0.3 1.3	0.5 2.5	<1.0	0.5 1.0	2.5 4.5	—
NIRA P	3.0 4.0	0.3 1.0	0.5 2.5	<1.0	<1.0	1.0 3.5	—
NIRA MO	3.0 4.0	0.5 1.5	1.5 2.5	<0.5	0.2 1.0	1.5 2.5	—

Description

Acicular nodular iron rolls.

Applications

- Intermediate and Finishing stands of heavy and medium section mills.
- Vertical rolls.

Features & Benefits

- Suitable for most applications
- Improved wear resistance compared to NIRA P

Properties

	Hardness LE(ShC)	Tensile strength MPa	Bending strength MPa
NIRA AC	655-685 (61-66)	400-800	800-1200
NIRA P	620-650 (55-60)	400-600	800-1100
NIRA MO	530-575 (40-48)	420-750	900-1300

Comparative properties

	Fire crack resistance	Toughness	Wear resistance
NIRA AC	—	—	—
NIRA P	—	—	—
NIRA MO	—	—	—