



NIRA MO

Cast Nodular Iron

Chemical composition

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

Description

Normalized, Mo-alloyed, pearlitic/bainitic nodular iron.

Applications

Two- and three-high Blooming Mills.

Roughing and intermediate stands of heavy and medium Section Mills.

Edging rolls for Hot Strip Mills.

Features & Benefits

- No hardness drop
- Excellent fire crack resistance

Properties

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

Comparative properties

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