



# NIRA MO

## Cast Nodular Iron

### Chemical composition

	C	Mn	Si	Cr	Mo	Ni	W, V Nb
<b>NIRA MO</b>	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	-
NIRA P CR	3.0 4.0	0.5 1.5	1.0 2.5	0.5 2.0	<1.0	2.0 4.0	-
NIRA AC CR	3.0 4.0	0.5 1.5	1.0 2.5	0.5 2.0	<1.0	2.0 4.0	-
NICRA	3.0 4.0	0.3 1.0	0.5 2.5	<1.0	<1.0	1.0 3.5	0.5 2.0

### 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 ShC	Tensile strength MPa	Bending strength MPa
<b>NIRA MO</b>	38-48	500-750	900-1300
NIRA P	45-67	400-600	800-1100
NIRA AC	48-76	500-800	800-1200
NIRA P CR	51-67	400-600	600-900
NIRA AC CR	51-67	400-600	750-1000
NICRA	45-67	400-600	800-1100

### Comparative properties

	Fire crack resistance	Toughness	Wear resistance
<b>NIRA MO</b>	————	——	—
NIRA P	—	—	—
NIRA AC	—	—	——
NIRA P CR	-	-	——
NIRA AC CR	-	-	————
NICRA	—	——	——