EARLE M. JORGENSEN COMPANY
REFERENCE BOOK

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SECTION N

CONTINUOUS CAST IRON BAR

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CONTINUOUS CAST GRAY IRON BARS
SIMILAR TO ASTM A 48

This material is broken down into several subsets based primarily on the developed microstructure.

ANALYSIS

<table>
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MACHINABILITY — The machinability ratings are G1 125%, G2 135% based on 1212.

APPLICATIONS — Hydraulic cylinder glands, manifolds and pistons; Automotive cylinder liners, gears valve guides; Pump liners, rollers, rotors and a variety of other mechanical parts.

HARDENING — G1 and G2 can be oil quenched from 1500°F to 1600°F to produce surface hardness of RC 40 (G1) and RC 50 (G2).
CONTINUOUS CAST DUCTILE IRON BARS
SIMILAR TO ASTM A 536

This material is broken down into several subsets based primarily on the developed microstructure.

ANALYSIS

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*Bars under 2.0” diameter, elongation will be 9% minimum.

APPLICATIONS — High pressure cylinder blocks, pistons, glands, rotors and valves. Also commonly used for bushings, flywheels, pulleys, rams, guide ways, gears, housings and liners.

HARDENING — These grades can be oil quenched from 1600º F to produce surface hardness of RC 50 minimum.

MACHINABILITY — The machinability ratings for each grade are:

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Based on 1212.
201/202 Ni-RESIST CAST IRON BARS
ASTM A 436 TYPE 1 AND TYPE 2

ANALYSIS

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*Brinell Hardness in the center of bars 1.750"RD and smaller may be lower due to thermal center microshrinkage.

HARDENING: Austenitic alloys can not be hardened by heat treatment. This material may be softened by heating to 1800º-1900ºF for 3-5 hours and air cooling.

GRAIN SIZE: ASTM 4-6 based on ASTM A247

APPLICATIONS: Valve guides, Insecticides pumps, Flood gates, Piston ring inserts, Sea water valves and Pump bodies.

CONDITIONS: Hydrogen sulfide and sour crude oil, Sea Water, Sodium hydroxide, Sulfuric acid, Hydrochloric acid and Marine atmospheres.

This product should not be used in applications involving service above 1300ºF.

MACHINABILITY: This material machines similarly to Ductile Iron.
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<th>Rough Size</th>
<th>Wt/Ft</th>
<th>Size</th>
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