

# DANDONG RUIDING FOUNDING CO., LTD DANDONG BORUI TRADING CO., LTD

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# ASTM A536 100-70-03, EN-GJS-700-2, GGG70, Ductile Iro Chemical Composition, Mechanical and Physical Prop

ASTM A536 100-70-03 (EN-GJS-700-2, GGG70) is a type of high tensile strength ductile cast material grade. It has comparatively high tensile strength, and good abrasive resistance. Sproduce mechanical parts with high duty.

Our dandong foundry has producing this material grade for many years, and herein, we share and physical properties.

## 1. Equivalent Material Grades of Ductile Iron ASTM A536 100-70-03

The equivalent grades of ASTM A536 100-70-03 are EN-GJS-700-2, GGG70, ISO 700-2, QT7 FGE70-2, FNG70-2, SJK-700. Although some required elongation 3%, and some required 2% same, so they could be taken as the equivalent grades.

#### 2. Chemical Composition of Ductile Iron ASTM A536 100-70-03

C: 3.60-3.90, Si: 1.70-1.90, Mn: 0.30-0.50, P: < 0.06, S: < 0.03, Mg: 0.035-0.050. However standard of inspection, unless there is special requirement. All foundries could adjust their c could meet the mechanical requirements of standards.

#### 3. Mechanical & Physical Properties of Ductile Iron ASTM A536 100-70-03

#### Tensile Strength ≥ 700 MPa. Yield Strength ≥ 420 MPa. Elongation ≥ 3%.

As for equivalent grades EN-GJS-700-2, GGG70, ISO 700-2, QT700-2, FCD700, GS700-2, FGS their elongation  $\geq$  3%.

There is no strict stipulation to the hardness of ASTM A536 100-70-03, however, normal hard (Brinell Hardness) without heat treatment.

### 4. Main Application of Ductile Iron ASTM A536 100-70-03

Because of the high tensile strength, hardness and good abrasive resistance, this grade of duct crank shaft, axle, camshaft, main shaft of milling machine and lathe machine, high duty manho

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