



Alloy: RB031

Material Data Sheet

Scope:

This specification covers chemistry, mechanical properties and acceptance criteria of alloy RB031.

Nearest Specification:

NA

Application:

For applications of heavy duty & high strength, wear resistance, superior bearing properties and increased machinability.

Manufacturing Process:

Gravity die Cast, continuous cast

Nominal Chemistry:

Cu : 58%

Zn + Others* : BAL

Mechanical Properties:

Yield Strength (MPa) : 295 min

Ultimate Tensile Strength (MPa) : 540 min

Elongation (%) : 10 min

Hardness (BHN)

(2.5mm ϕ ball and 62.5Kg load) : 160 min

Fracture:

Fracture should be uniform and free from any inclusions or red spots. Should be free from laps, seams, cracks, folds, etc.

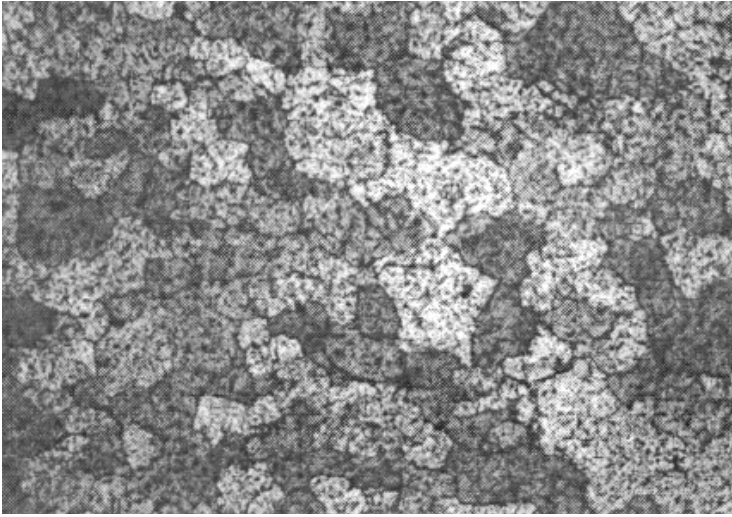
Heat Treatment:

Not applicable.

* Include undisclosed proprietary additions made for achieving desired properties.

Microstructure:

Microstructure consists of uniformly distributed intermetallic manganese silicides precipitates in the matrix of alpha plus beta phase.

**Test Certificate:**

To be issued with every consignment indicating chemistry and mechanical properties.