

# Nitrogen Bearing Ferromanganese

JMC produces two types of manganese nitride: 5% nitrogen product and 7% nitrogen product. The base ferroalloy may be medium-carbon ferromanganese, low-carbon ferromanganese, or metallic manganese. Example materials include:

- Nitrogen Bearing Ferromanganese :
  - 5% nitrogen product, medium-carbon ferromanganese base
  - Mn:70%min C: 2% max Si: 2% max P: 0.4% max S: 0.03% max N: 5% min
  - Typical: Mn:72.3% C: 1.64% Si: 0.53% P: 0.134% S: 0.005% N: 5.43%
  - Size: 30 x 30 mm square
- Nitrogen Bearing Ferromanganese :
  - 7% nitrogen product, low-carbon, low phosphorus
  - Mn: 80% min C: 0.2% max Si : 1.5% max P: 0.05% max S: 0.02% max N: 7% min
  - Typical: Mn: 87.6% C: 0.13% Si : 0.22% P: 0.020% S: 0.016% N: 7.51%
  - Size: 10-50mm
- Nitrogen Manganese Metal:
  - Mn: 90% min C: 0.02% max Si: 0.02% max P: 0.01% max S: 0.04% max N: 7% min
  - Typical: Mn: 91.78% C: 0.019% Si: 0.003% P: <0.005% S: 0.020% N: 7.28%
  - Size: 10-50mm



# Nitrogen Bearing Ferrochromium

JMC's nitrogen bearing ferrochromium contains approximately 6-8% nitrogen and enables simultaneous addition of chromium and nitrogen to stainless steel and special steel. Briquette and lumpy forms are available.

- Nitrogen Bearing Ferrochromium :
  - Typical: Cr: 64.3% min C: 0.077% max Si: 0.27% max P: 0.023% max S: 0.004% max N: 7.83% min
  - Size: 0-50 mm

