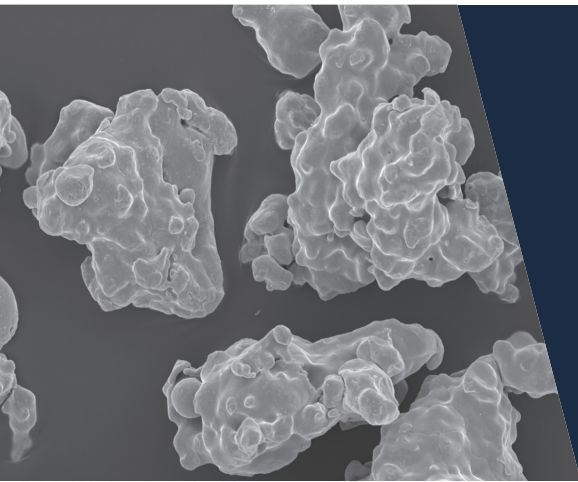


ANCORSTEEL 50 HP



This is a water-atomized, prealloyed, low-alloy steel powder for high performance applications. The prealloyed 0.50 weight % molybdenum addition results in high compressibility and provides good response to heat treatment. Ancorsteel 50 HP is an ideal base powder for a wide range of copper, nickel, chromium, and manganese hybrid alloy systems. This material conforms to MPIF standard 35 for FL-400X.

www.gknpm.com

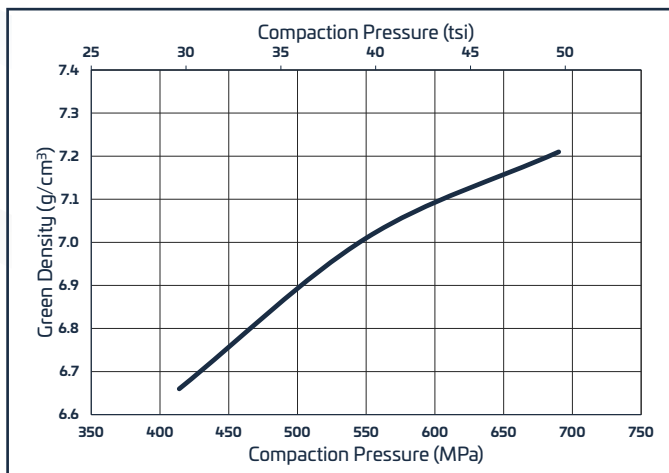
Nominal Chemistry (weight %)

| Iron | Manganese | Molybdenum |
|------|-----------|------------|
| Bal. | 0.15 | 0.50 |

Typical Particle Size (weight %)

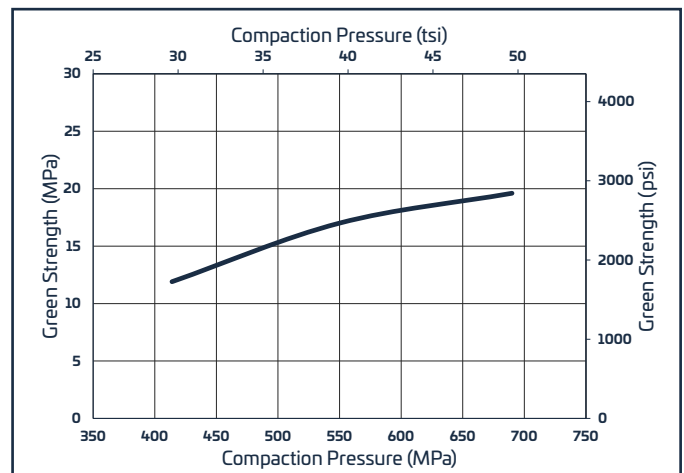
| Micrometers | +250 | -250/+150 | -150/+45 | -45 |
|--------------------|-------|------------|-------------|--------|
| U.S. Standard Mesh | (+60) | (-60/+100) | (-100/+325) | (-325) |
| | Trace | 10 | 70 | 20 |

Green Density



(with 0.75 wt% EBS)

Green Strength



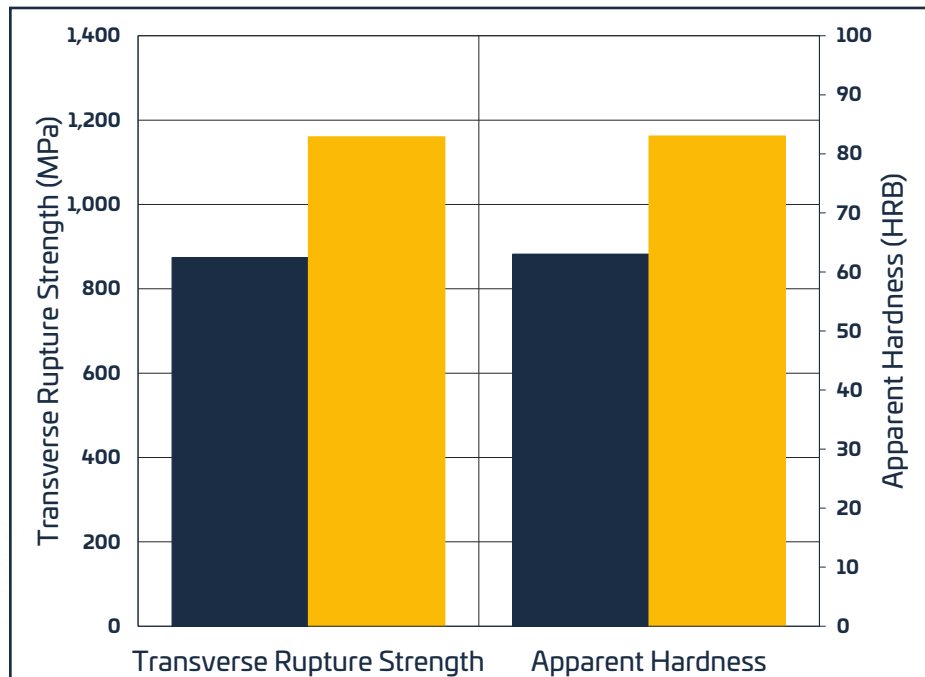
(with 0.75 wt% EBS)

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ANCORSTEEL 50 HP

Transverse Rupture Strength Properties

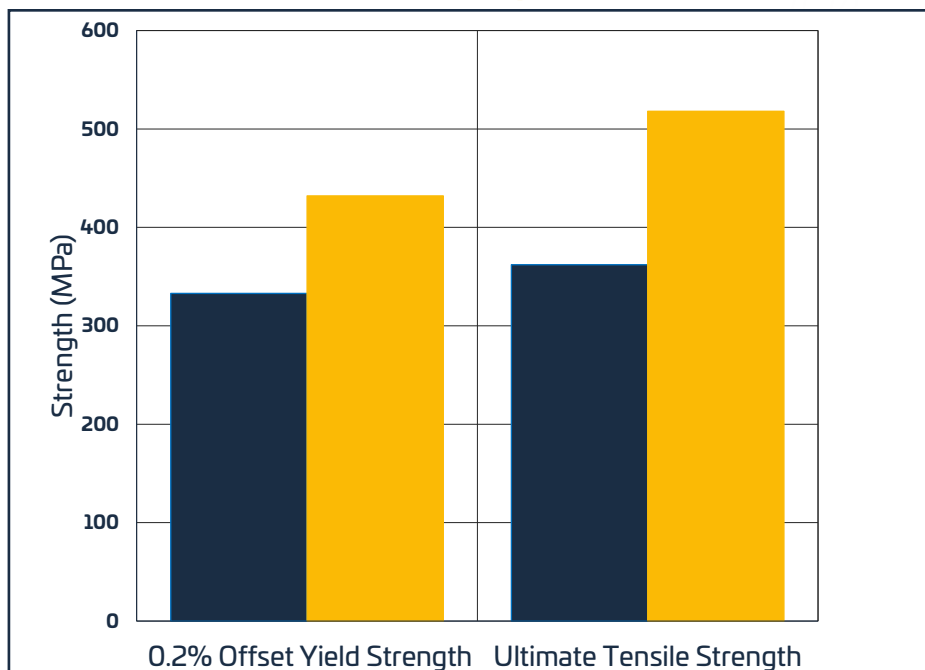


■ 50 HP

■ 50 HP + 2% Nickel

(with 0.6 wt% graphite + 0.75 wt% EBS)

Tensile Properties



(with 0.6 wt% graphite + 0.75 wt% EBS)

All test specimens were compacted to 7.0 g/cm³ and sintered at 1120 °C (2050 °F) in 90N₂-10H₂ atmosphere with conventional cooling.

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