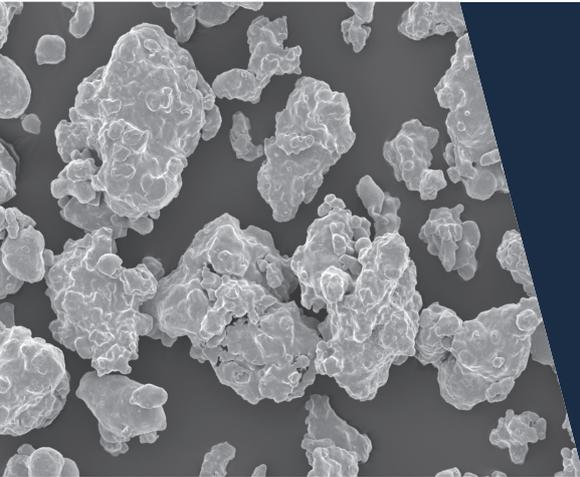


ANCORSTEEL 85HP



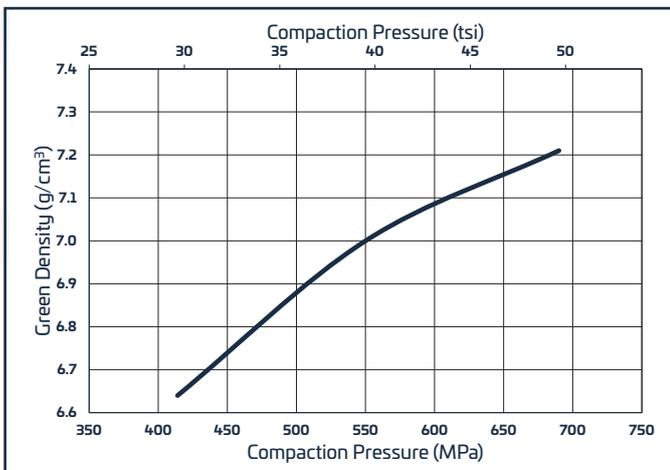
This is a water-atomized, prealloyed, low-alloy steel powder for high performance applications. The prealloyed 0.85 weight % molybdenum addition allows exceptionally high compressibility and provides good response to heat treatment. Ancorsteel 85HP is a good base powder for a wide range of hybrid alloy systems. This material conforms to MPlF standard 35 for FL-440X.

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| Nominal Chemistry (weight %) | | |
|------------------------------|-----------|------------|
| Iron | Manganese | Molybdenum |
| Bal. | 0.12 | 0.85 |

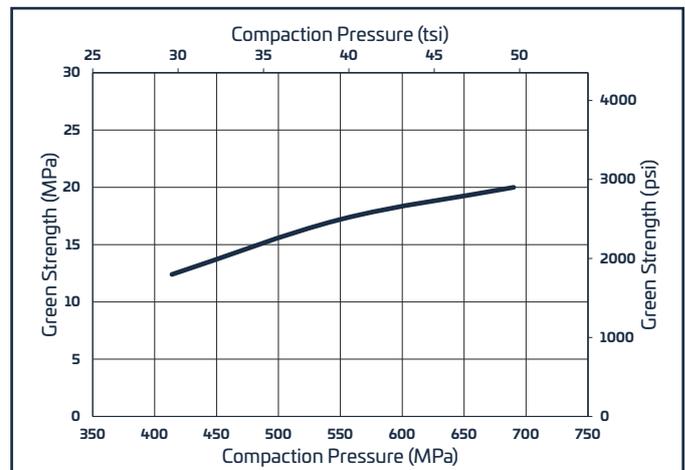
| Typical Particle Size (weight %) | | | | |
|----------------------------------|-------|------------|-------------|--------|
| Micrometers | +250 | -250/+150 | -150/+45 | -45 |
| U.S. Standard Mesh | (+60) | (-60/+100) | (-100/+325) | (-325) |
| | Trace | 10 | 70 | 20 |

Green Density



(with 0.75 wt% EBS)

Green Strength



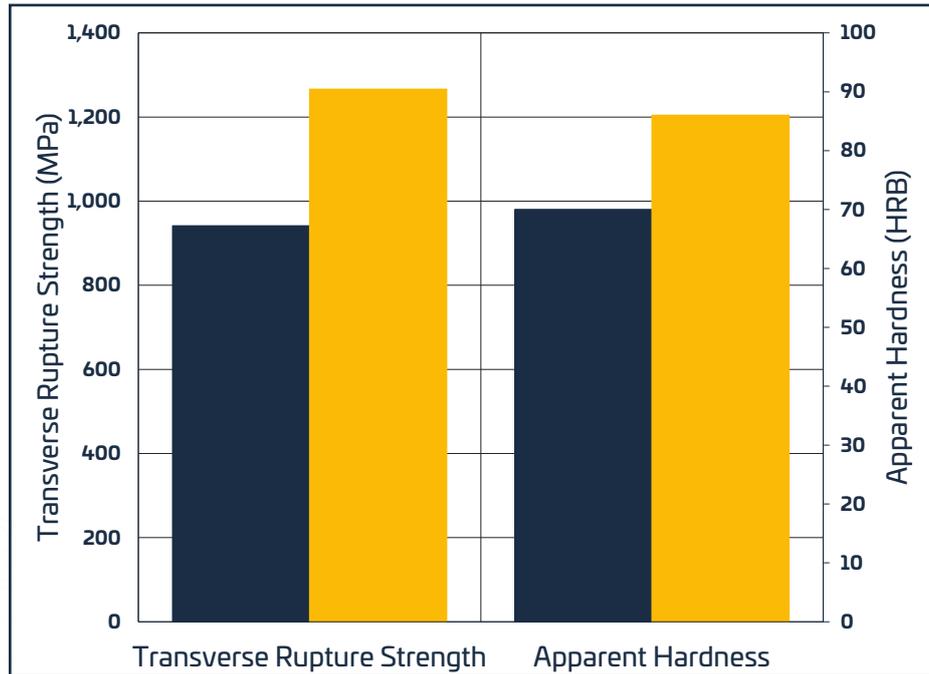
(with 0.75 wt% EBS)

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ANCORSTEEL 85HP

Transverse Rupture Strength Properties

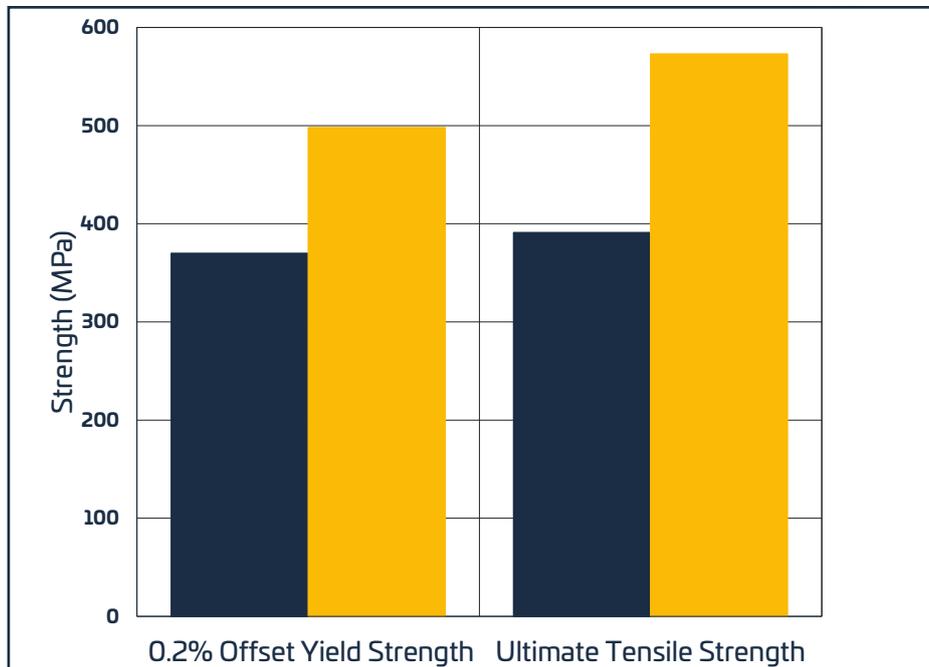


(with 0.6 wt% graphite + 0.75 wt% EBS)

■ 85HP

■ 85HP + 2% Nickel

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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