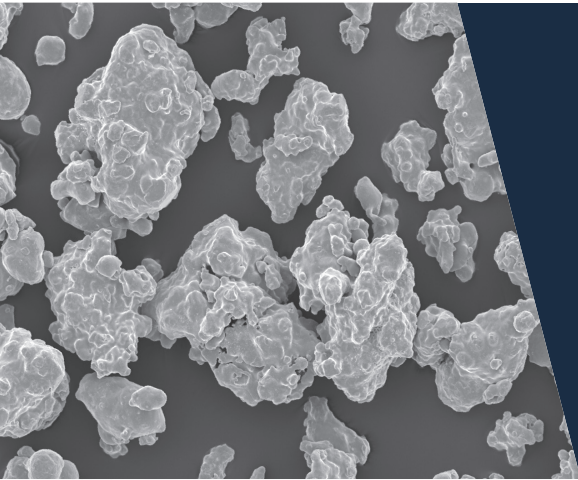


ANCORSTEEL 150 HP



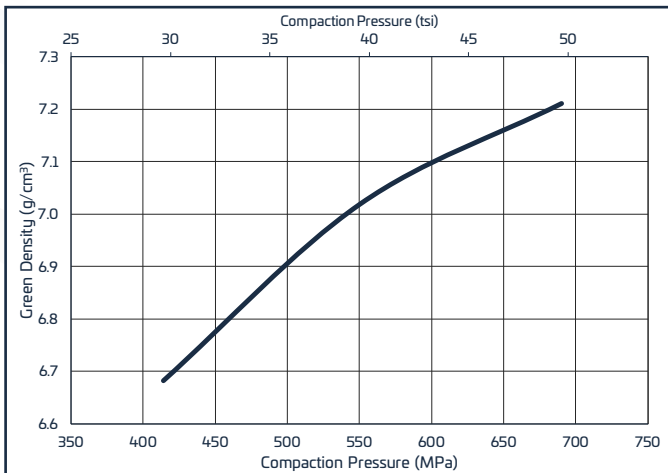
This is a water-atomized, prealloyed, low-alloy steel powder for high performance applications. The higher prealloyed 1.50 weight % molybdenum addition permits good compressibility as well as good response to heat treatment and sinter-hardening. This material conforms to MPIF standard 35 for FL-4905.

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Nominal Chemistry (weight %)		
Iron	Manganese	Molybdenum
Bal.	0.12	1.50

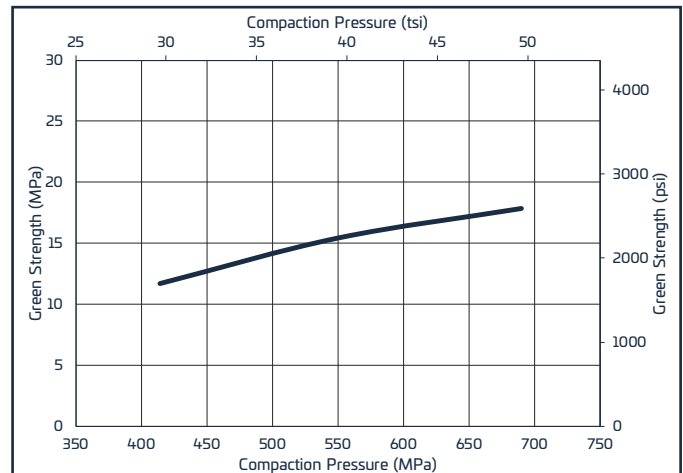
Typical Particle Size (weight %)				
Micrometers	+250	-250/+150	-150/+45	-45
U.S. Standard Mesh	(+60)	(-60/+100)	(-100/+325)	(-325)
	Trace	10	70	20

Green Density



(with 0.75 wt% EBS)

Green Strength



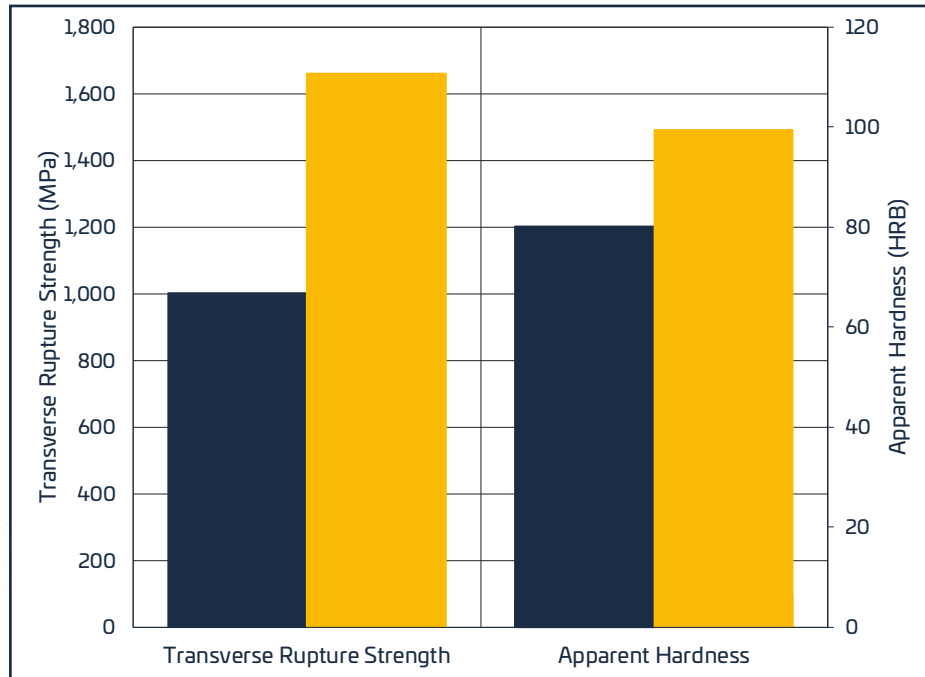
(with 0.75 wt% EBS)

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ANCORSTEEL 150 HP

Transverse Rupture Strength Properties

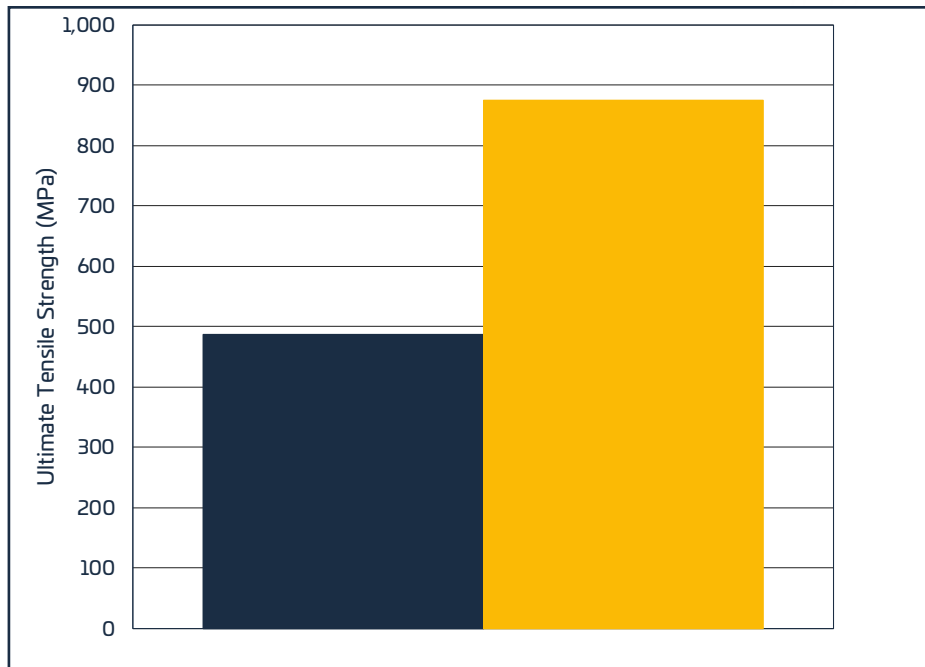


(with 0.6 wt% graphite + 0.75 wt% EBS)

■ 150 HP

■ 150 HP + 2% Nickel

Tensile Properties



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

All test specimens were compacted to 7.0 g/cm^3 and sintered at $1120 \text{ }^\circ\text{C}$ ($2050 \text{ }^\circ\text{F}$) in 90N_2 - 10H_2 atmosphere with accelerated cooling ($\sim 1.7 \text{ }^\circ\text{C/s}$). Samples tempered at $200 \text{ }^\circ\text{C}$ for one hour.

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