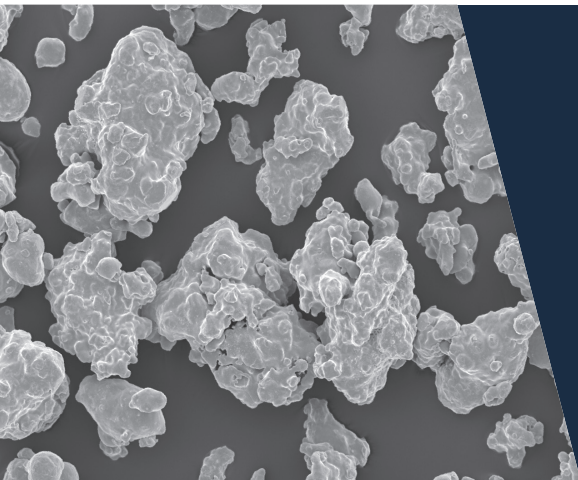


# ANCORSTEEL 85 HP



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 85 HP is a good base powder for a wide range of hybrid alloy systems. This material conforms to MPIF standard 35 for FL-440X.

[www.gknpm.com](http://www.gknpm.com)

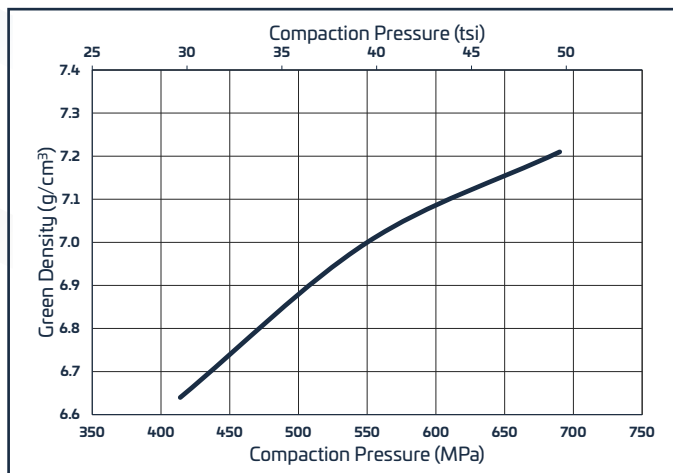
## Nominal Chemistry (weight %)

Iron	Manganese	Molybdenum
Bal.	0.12	0.85

## Typical Particle Size (weight %)

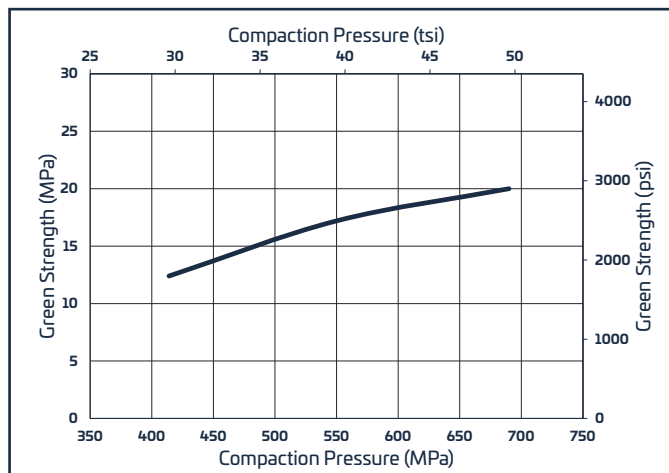
Micrometers	+250	-250/+150	-150/+45	-45
U.S. Standard Mesh	(+60)	(-60/+100)	(-100/+325)	(-325)
	Trace	10	70	20

## Green Density



(with 0.75 wt% EBS)

## Green Strength



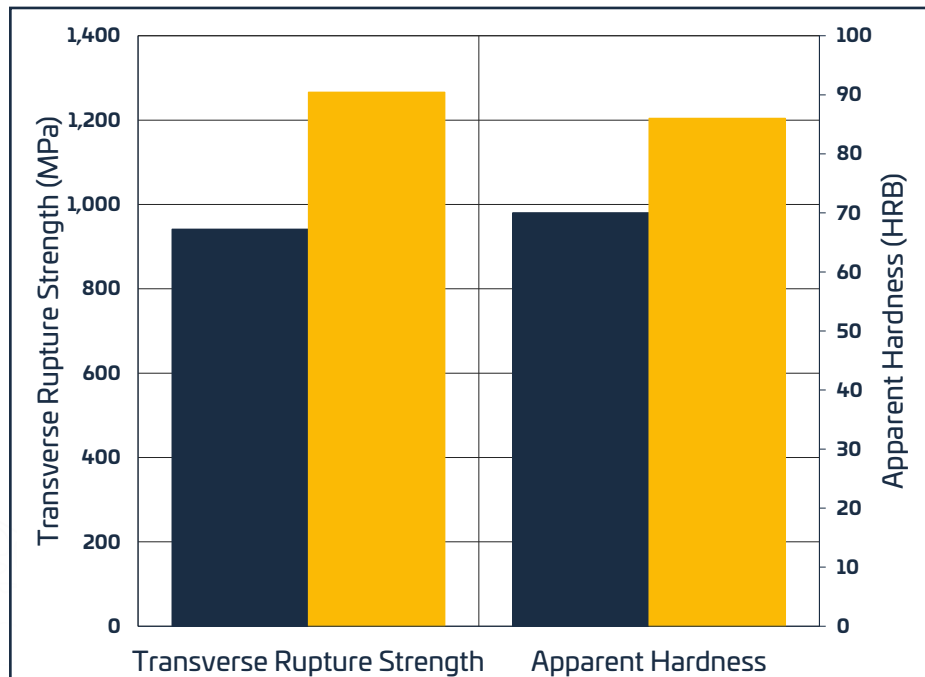
(with 0.75 wt% EBS)

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# ANCORSTEEL 85 HP

## Transverse Rupture Strength Properties

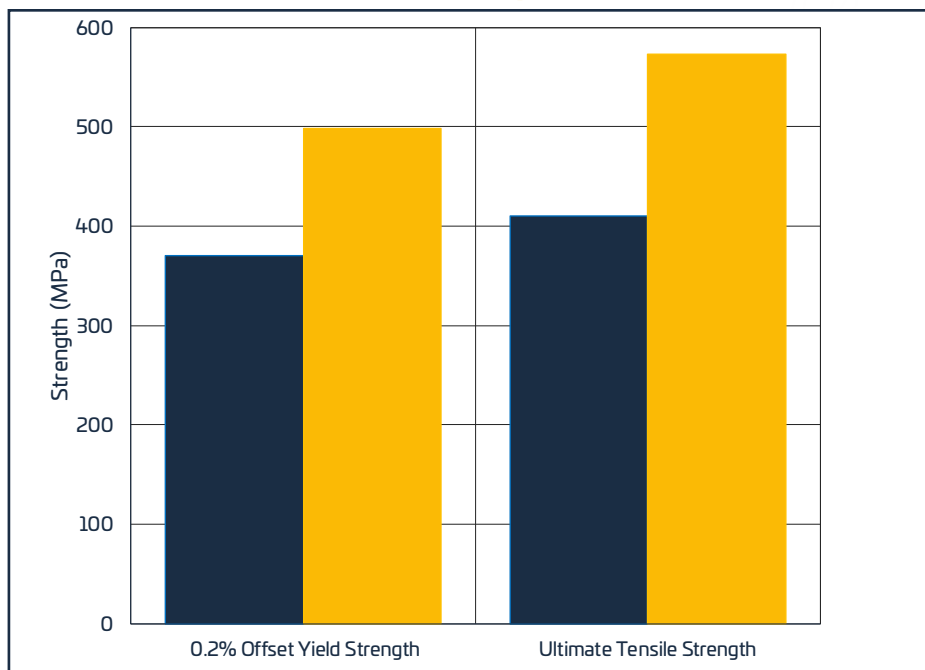


85 HP

85 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/cm<sup>3</sup> and sintered at 1120 °C (2050 °F) in 90N<sub>2</sub>-10H<sub>2</sub> atmosphere with conventional cooling.

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