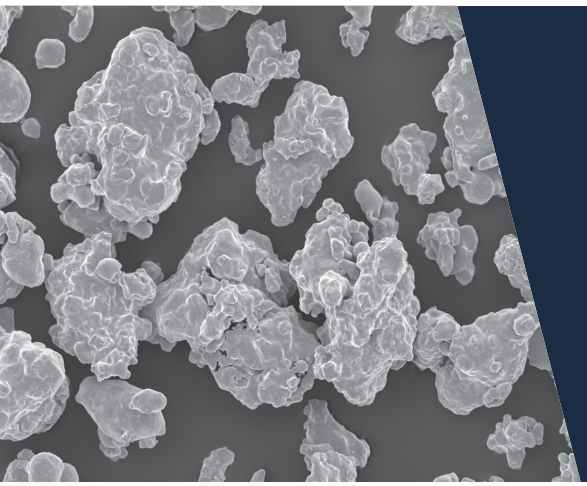
ANCORSTEEL1000B



This is the second generation of atomized high compressibility iron powders. It's high purity provides greater compressibility than Ancorsteel 1000. The combination of purity, compressibility, and green strength makes Ancorsteel 1000B ideal for high strength, high density, multi-level structural components. This material conforms to MPIF standard 35 for F-0000.

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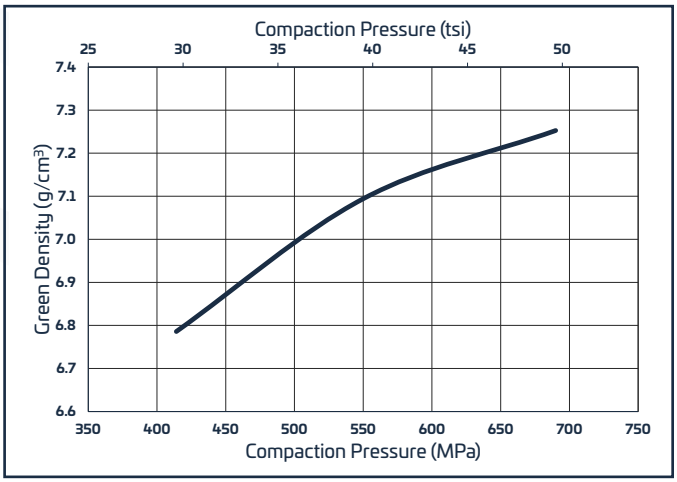
Nominal Chemistry *(weight %)*	
Iron	Manganese
Bal.	0.10

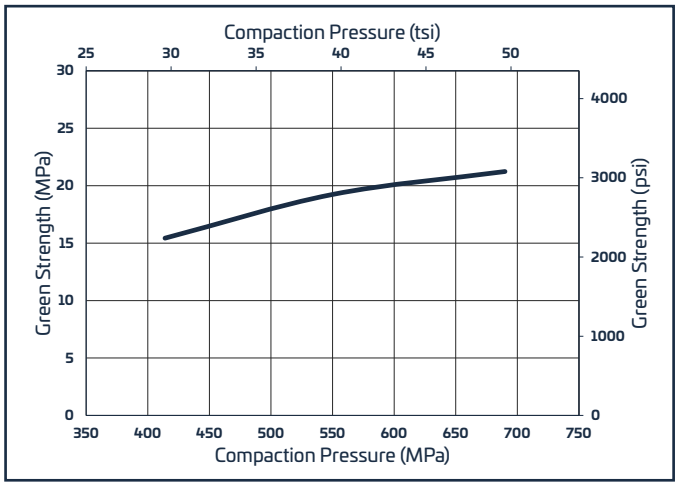
Typical Particle Size *(weight %)*				
Micrometers	+250	-250/+150	-150/+45	-45
U.S. Standard Mesh	(+60)	(-60/+100)	(-100/+325)	(-325)
	Trace	10	70	20

Green Density



(with 0.75 wt% EBS)

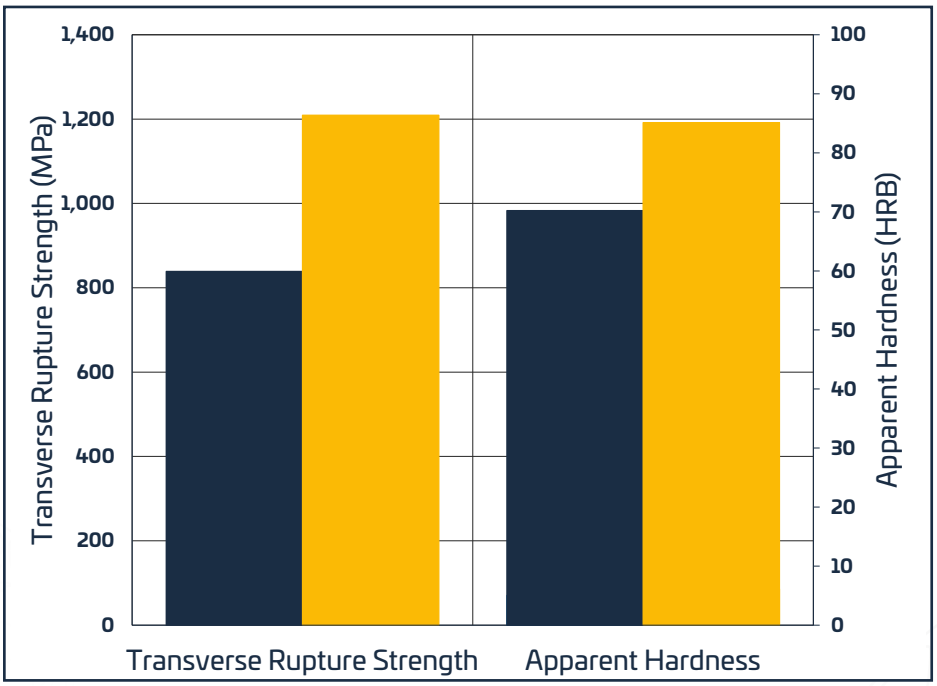
Green Strength



(with 0.75 wt% EBS)

ANCORSTEEL 1000B

Transverse Rupture Strength Properties

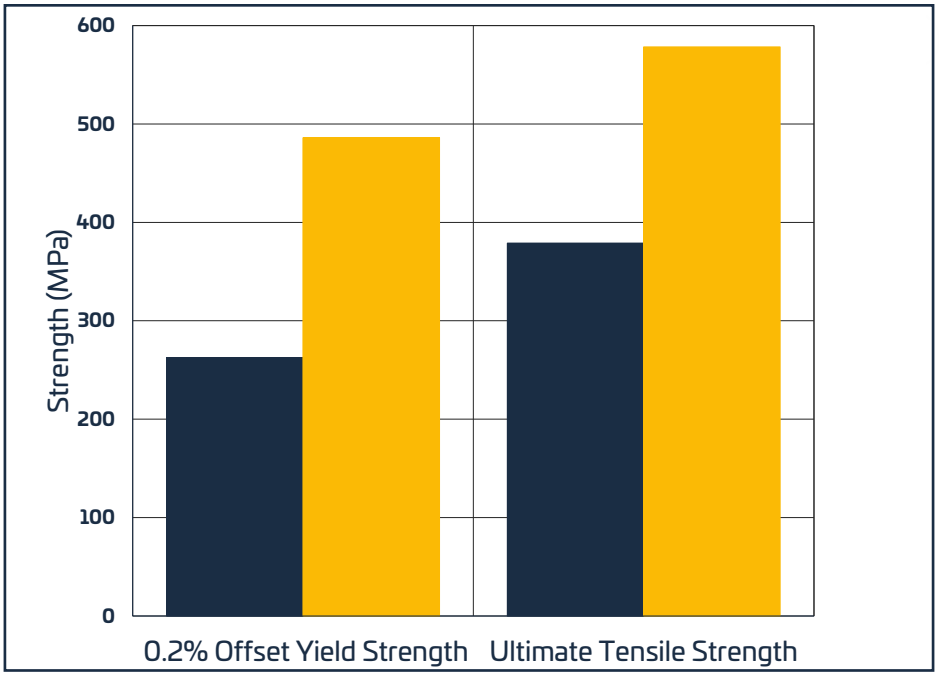


(with 0.9 wt% graphite + 0.75 wt% EBS)

Ancorsteel 1000B

Ancorsteel 1000B + 2% Copper

Tensile Properties



(with 0.9 wt% graphite + 0.75 wt% EBS)

All test specimens were compacted to 7.0 g/cm³ and sintered at 1120 °C (2050 °F) in 90N_2-10H_2 atmosphere with conventional cooling.