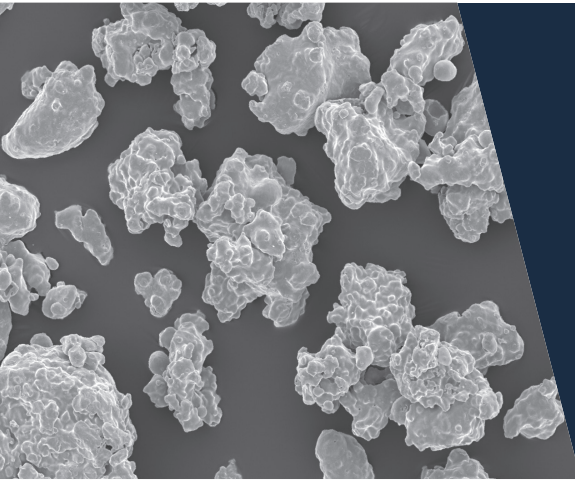


ANCORSTEEL 1000



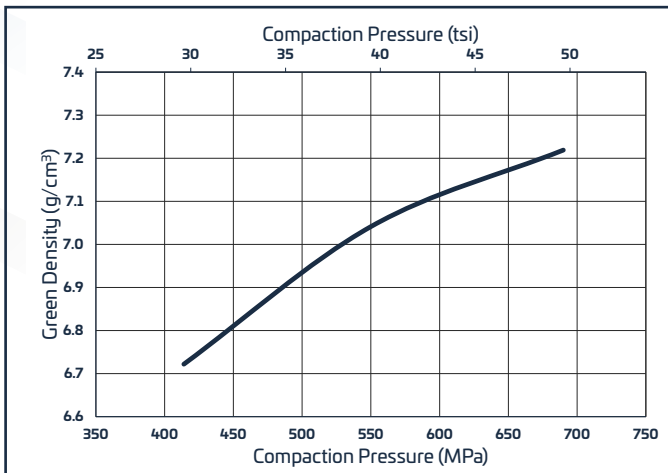
This is the workhorse of our atomized powders. More PM components have Ancorsteel 1000 as their base than any other atomized powder. It has low levels of carbon and oxygen along with good compressibility. Ancorsteel 1000 is also available with guaranteed low levels of inclusions for powder forging (PF) applications. This material conforms to MPlF standard 35 for F-0000.

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Nominal Chemistry (weight %)	
Iron	Manganese
Bal.	0.20

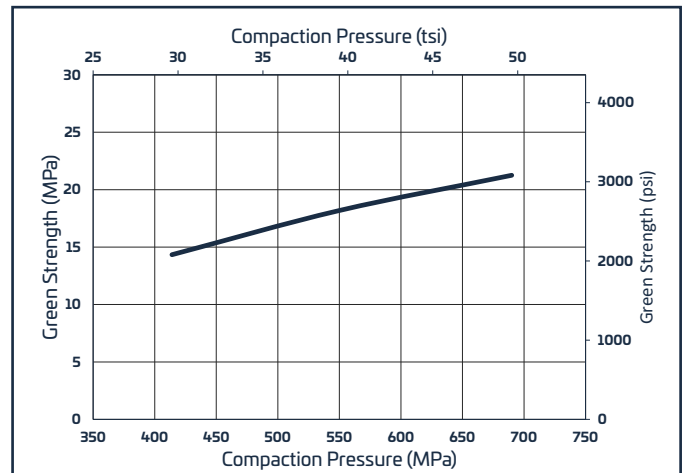
Typical Particle Size (weight %)				
Micrometers	+250	-250/+150	-150/+45	-45
U.S. Standard Mesh	(+60)	(-60/+100)	(-100/+325)	(-325)
	Trace	10	70	20

Green Density



(with 0.75 wt% EBS)

Green Strength



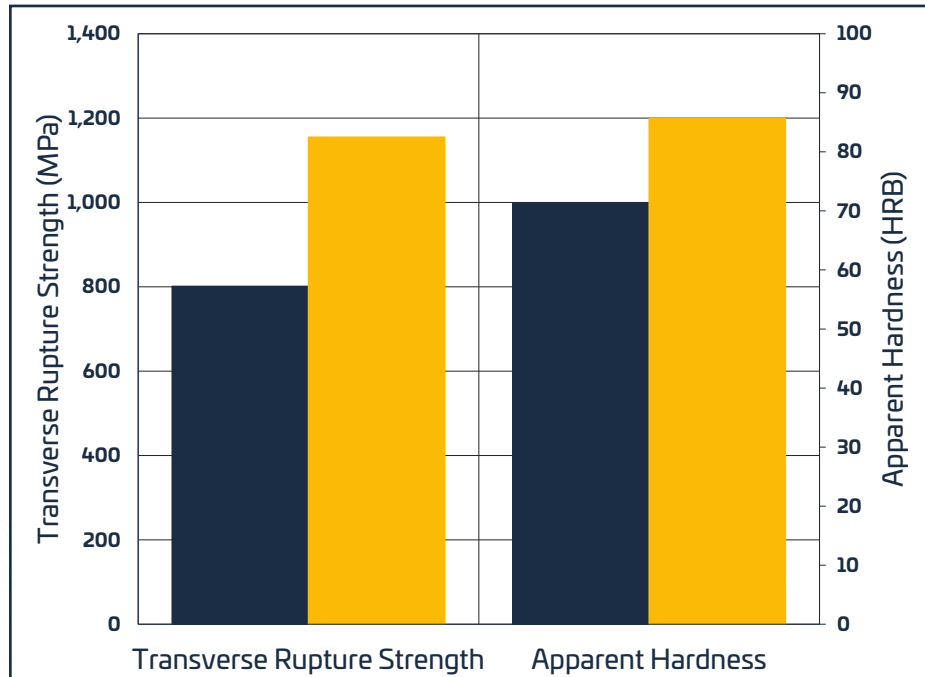
(with 0.75 wt% EBS)

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ANCORSTEEL 1000

Transverse Rupture Strength Properties

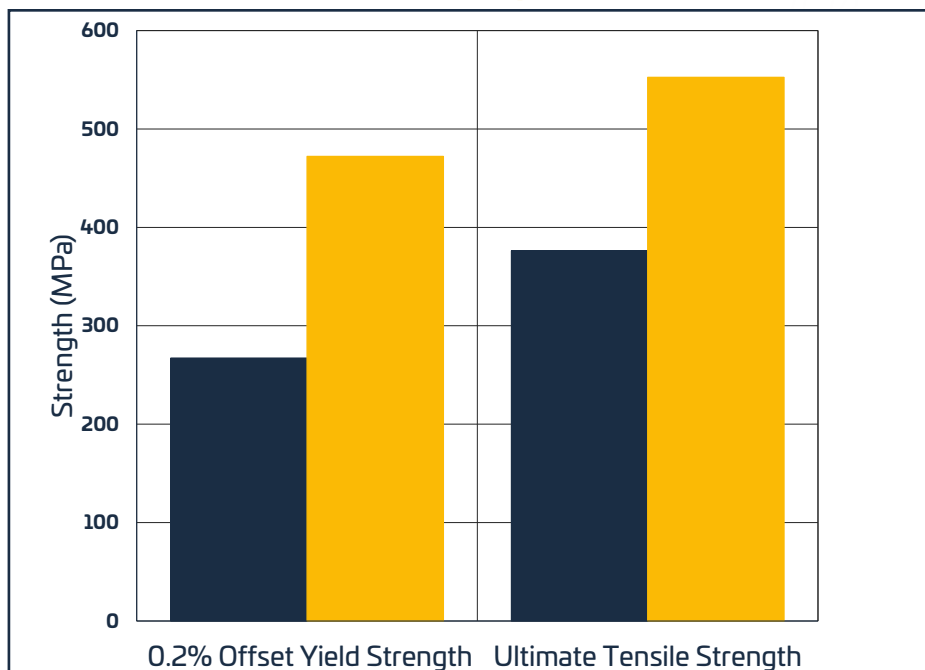


(with 0.9 wt% graphite + 0.75 wt% EBS)

■ Ancorsteel 1000

■ Ancorsteel 1000 + 2% Copper

Tensile Properties



(with 0.9 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 $90\text{N}_2\text{-}10\text{H}_2$ atmosphere with conventional cooling.

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