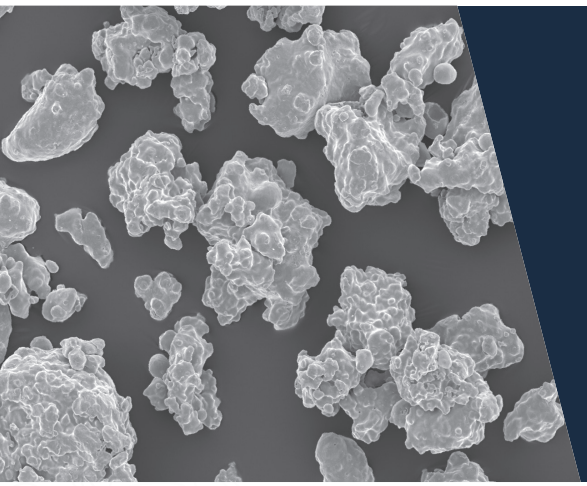
ANCORSTEEL 1000C



This is the highest compressibility iron powder available. Allowing green density compacts >7.1g/cm3 at 550 MPa provides outstanding sintered properties while extending the working range of your compaction press. Due to its low oxygen and nitrogen levels, Ancorsteel 1000C is also used extensively for electromagnetic applications. This material conforms to MPIF standard 35 for F-0000 and FF-0000.

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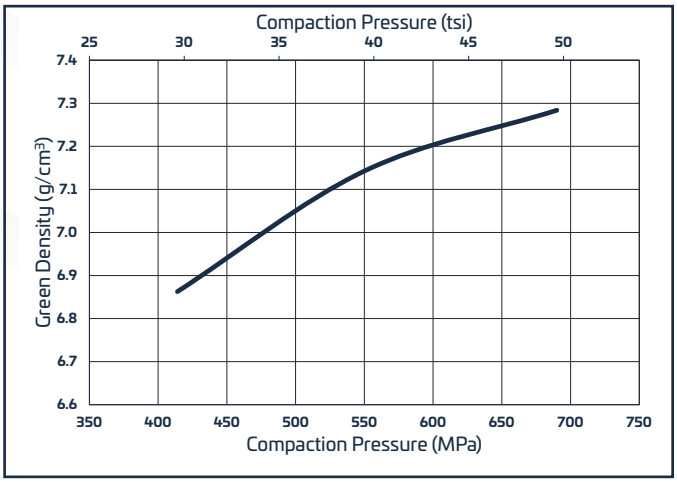
Nominal Chemistry *(weight %)*	
Iron	Manganese
Bal.	0.07

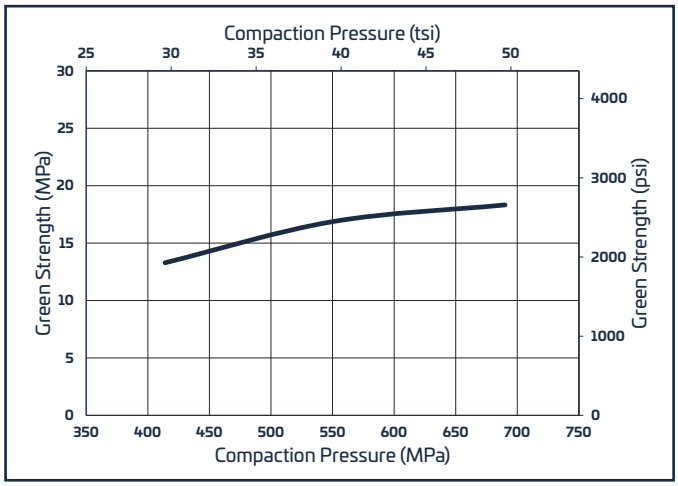
Typical Particle Size *(weight %)*				
Micrometers	+250	-250/+150	-150/+45	-45
U.S. Standard Mesh	(+60)	(-60/+100)	(-100/+325)	(-325)
	Trace	10	70	20

Green Density



(with 0.75 wt% EBS)

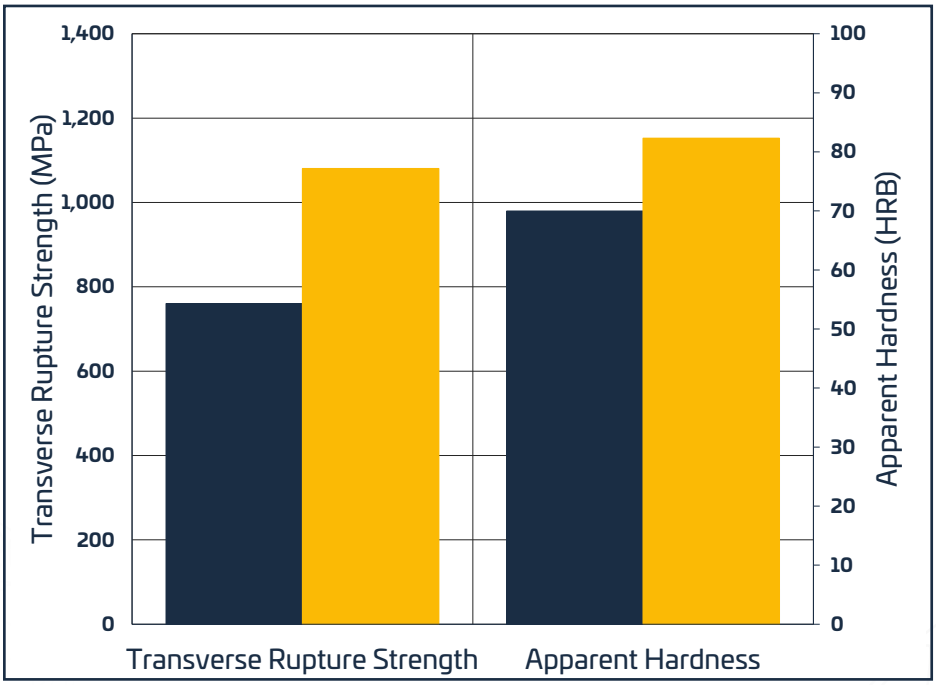
Green Strength



(with 0.75 wt% EBS)

ANCORSTEEL 1000C

Transverse Rupture Strength Properties

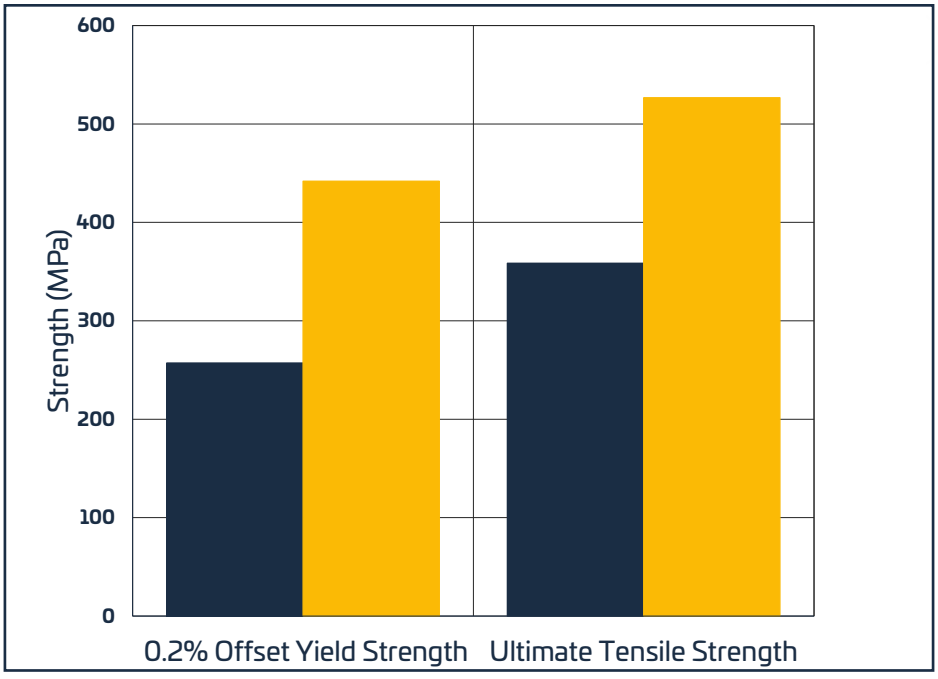


(with 0.9 wt% graphite + 0.75 wt% EBS)

Ancorsteel 1000C

Ancorsteel 1000C + 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.