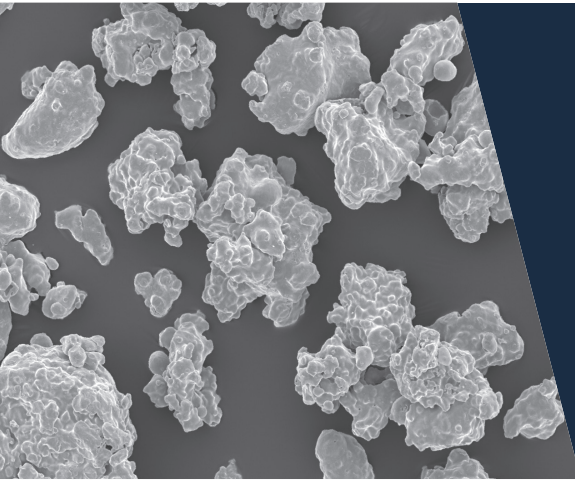


# ANCORSTEEL 1000C



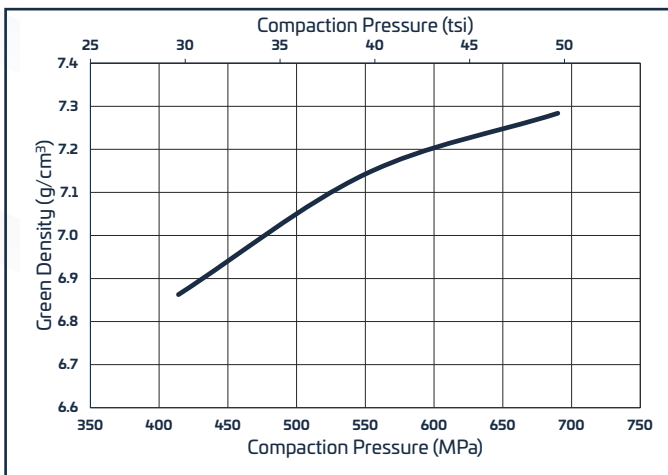
This is the highest compressibility iron powder available. Allowing green density compacts  $>7.1\text{g/cm}^3$  at 550 MPa provides outstanding sintered properties while extending the working range of your compaction press. Due to its low oxygen and nitrogen levels, Ancorsteel 1000C is also used extensively for electromagnetic applications. This material conforms to MPIF standard 35 for F-0000 and FF-0000.

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

Nominal Chemistry (weight %)	
Iron	Manganese
Bal.	0.07

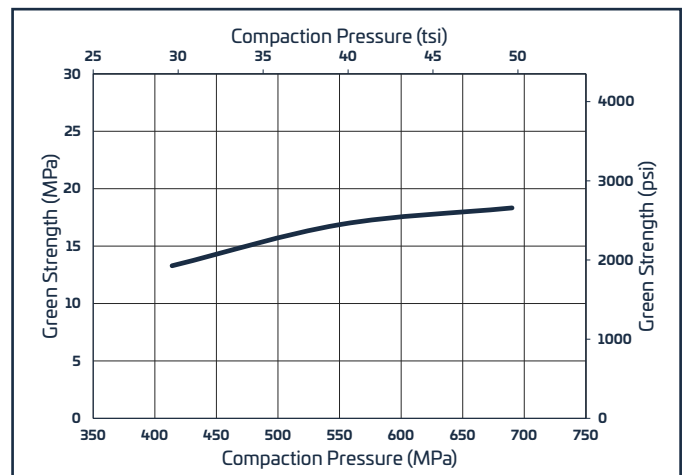
Typical Particle Size (weight %)				
Micrometers	+250	-250/+150	-150/+45	-45
U.S. Standard Mesh	(+60)	(-60/+100)	(-100/+325)	(-325)
	Trace	10	70	20

## Green Density



(with 0.75 wt% EBS)

## Green Strength



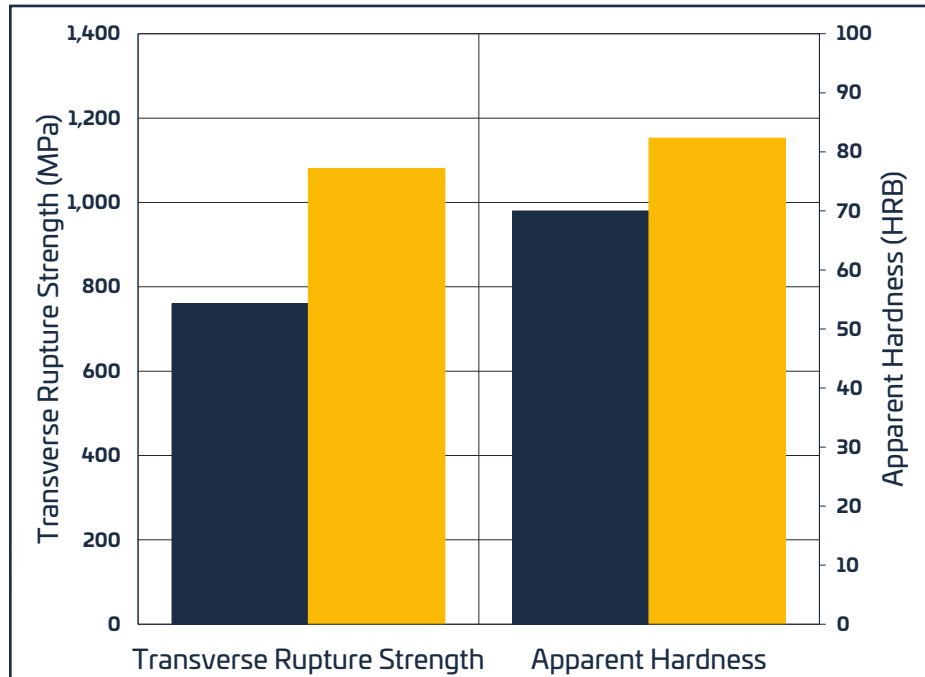
(with 0.75 wt% EBS)

© GKN Powder Metallurgy

This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The product characteristics and performance data on this page represent standard products and depict their typical performance under controlled laboratory conditions. Actual performance will vary depending on the operating environment and application. GKN Powder Metallurgy reserves the right to revise its products and documents without notification. For product design to meet specific applications, dimensions, electrical and working points, please contact GKN Powder Metallurgy Marketing and Sales.

# ANCORSTEEL 1000C

## Transverse Rupture Strength Properties

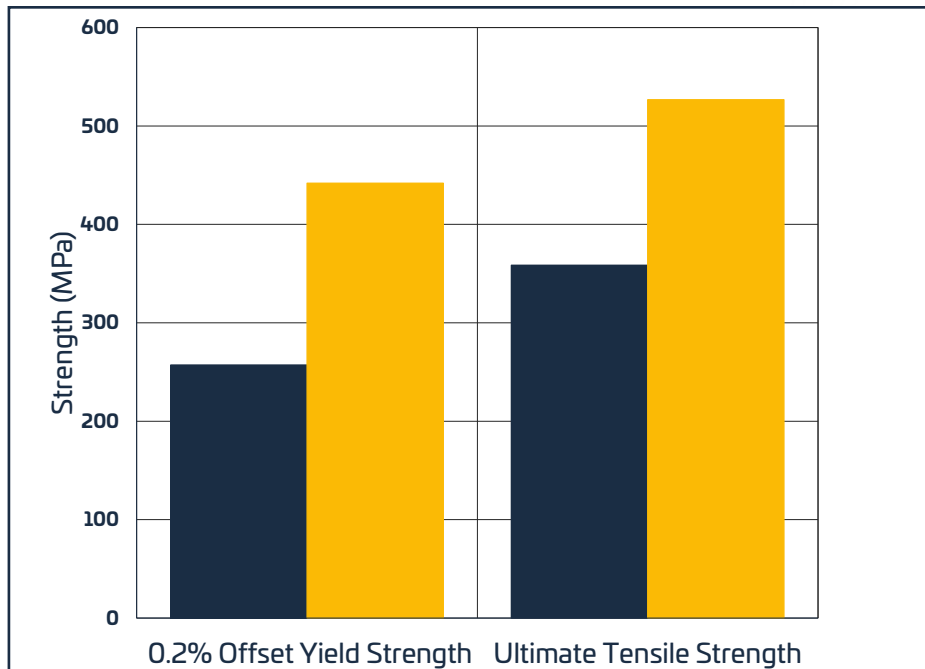


(with 0.9 wt% graphite + 0.75 wt% EBS)

■ Ancorsteel 1000C

■ Ancorsteel 1000C + 2% Copper

## Tensile Properties



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

All test specimens were compacted to  $7.0 \text{ g/cm}^3$  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.

© GKN Powder Metallurgy

This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The product characteristics and performance data on this page represent standard products and depict their typical performance under controlled laboratory conditions. Actual performance will vary depending on the operating environment and application. GKN Powder Metallurgy reserves the right to revise its products and documents without notification. For product design to meet specific applications, dimensions, electrical and working points, please contact GKN Powder Metallurgy Marketing and Sales.