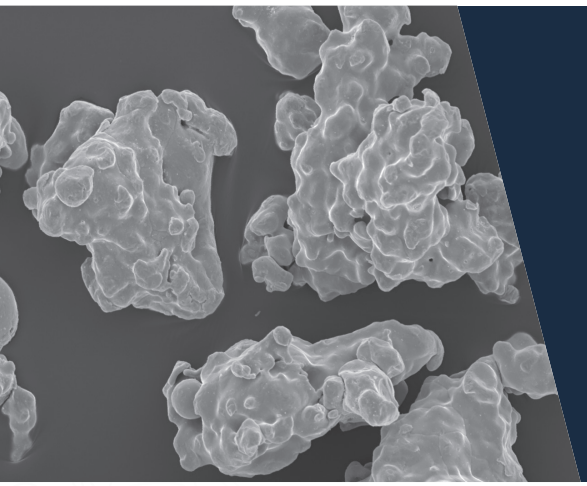
ANCORSTEEL 737 SH



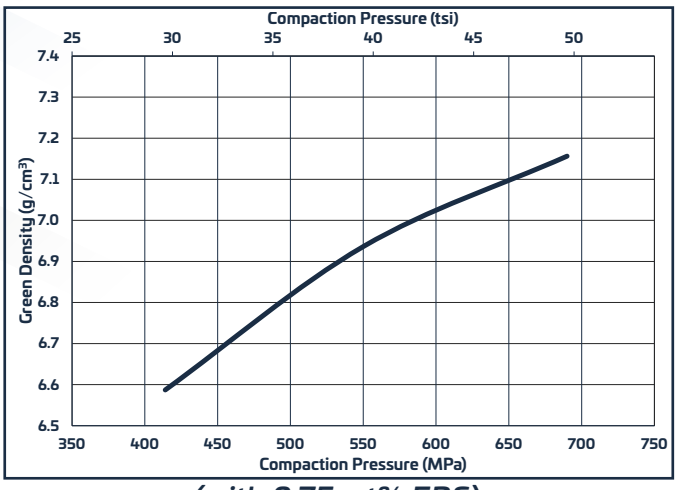
This is a water atomized, prealloyed steel powder specifically developed for sinter-hardening for a range of part sizes. The primary characteristics center on excellent hardenability in conjunction with good compressibility, particularly at higher compaction pressures. This unique combination of attributes differentiates its performance and optimizes both static and dynamic strength.

www.gknpm.com

Nominal Chemisty *(weight %)*			
Iron	Manganese	Nickel	Molybdenum
Bal.	0.40	1.40	1.25

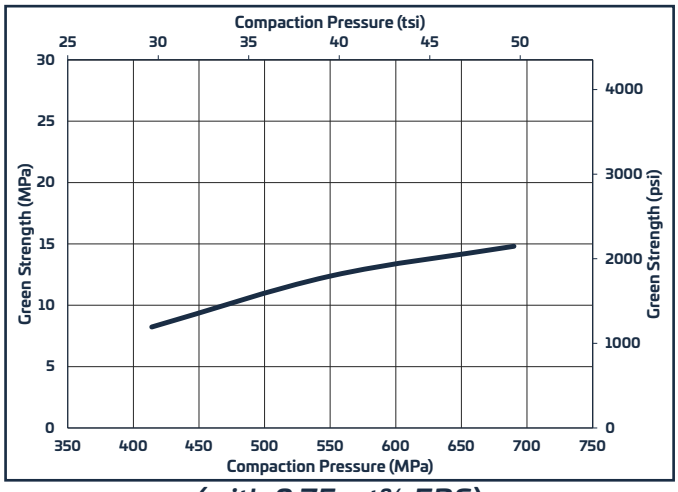
Typical Particle Size *(weight %)*				
Micrometers	+250	-250/+150	-150/+45	-45
U.S. Standard Mesh	(+60)	(-60/+100)	(-100/+325)	(-325)
	Trace	10	70	20

Green Density



(with 0.75 wt% EBS)

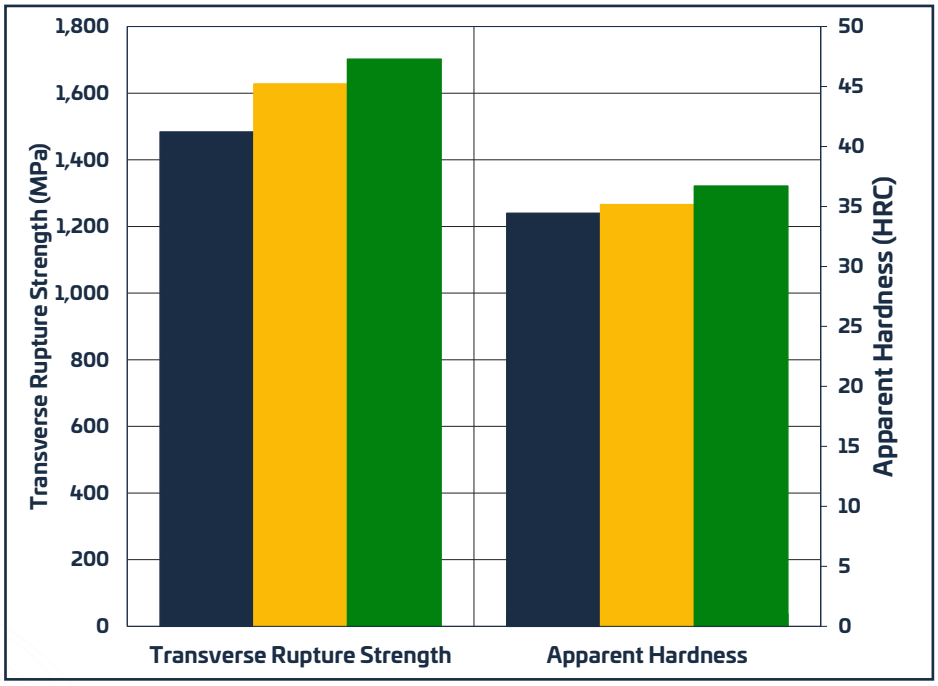
Green Strength



(with 0.75 wt% EBS)

ANCORSTEEL 737 SH

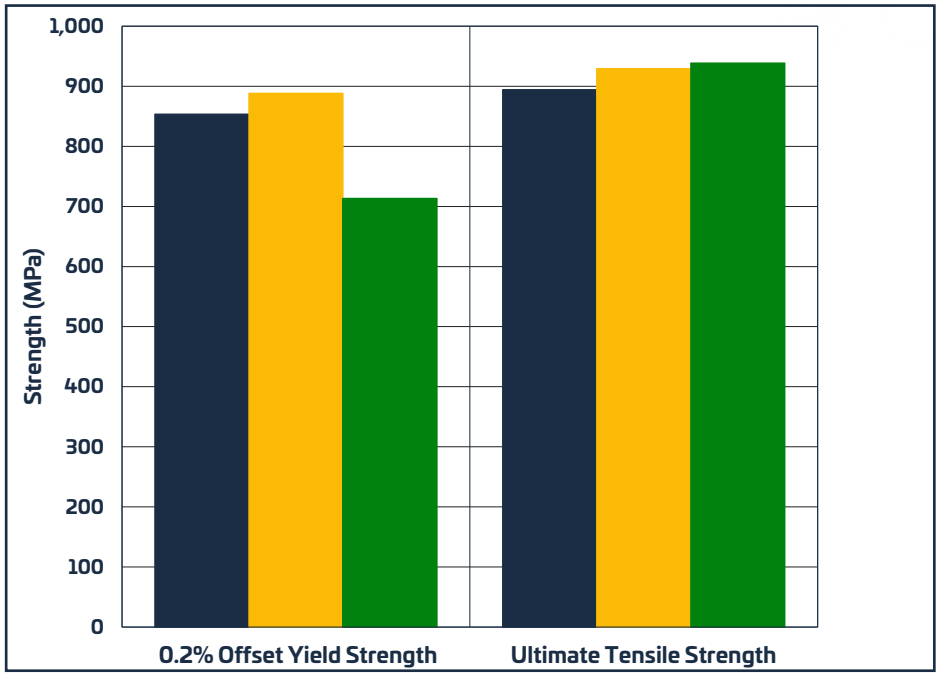
Transverse Rupture Strength Properties



(with 0.75 wt% EBS)

- 737 SH + 0.7% Graphite
- 737 SH + 1% Copper + 0.7% Graphite
- 737 SH + 2% Copper + 0.9% Graphite

Tensile Properties



(with 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 accelerated cooling (~1.7 °C/s). Samples tempered at 200 °C for one hour.