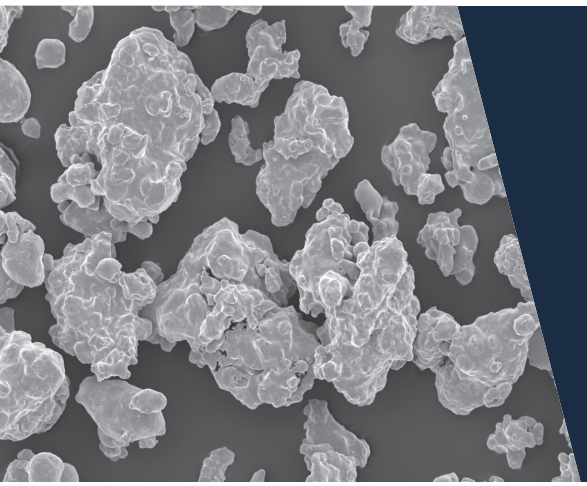
ANCORSTEEL 150 HP



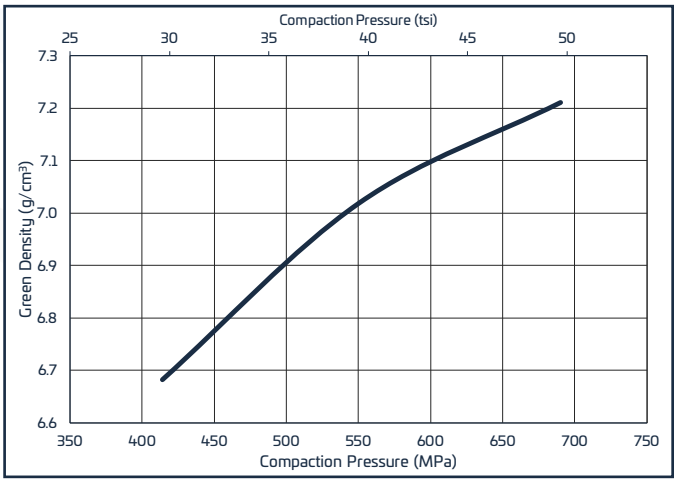
This is a water-atomized, prealloyed, low-alloy steel powder for high performance applications. The higher prealloyed 1.50 weight % molybdenum addition permits good compressibility as well as good response to heat treatment and sinter-hardening. This material conforms to MPIF standard 35 for FL-4905.

www.gknpm.com

Nominal Chemistry *(weight %)*		
Iron	Manganese	Molybdenum
Bal.	0.12	1.50

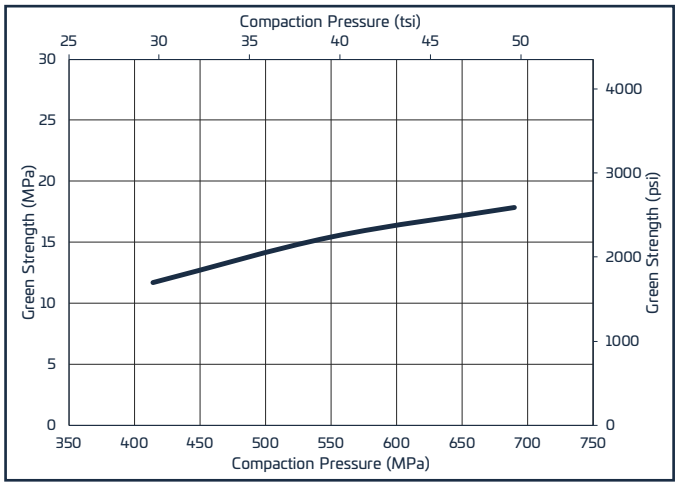
Typical Particle Size *(weight %)*				
Micrometers	+250	-250/+150	-150/+45	-45
U.S. Standard Mesh	(+60)	(-60/+100)	(-100/+325)	(-325)
	Trace	10	70	20

Green Density



(with 0.75 wt% EBS)

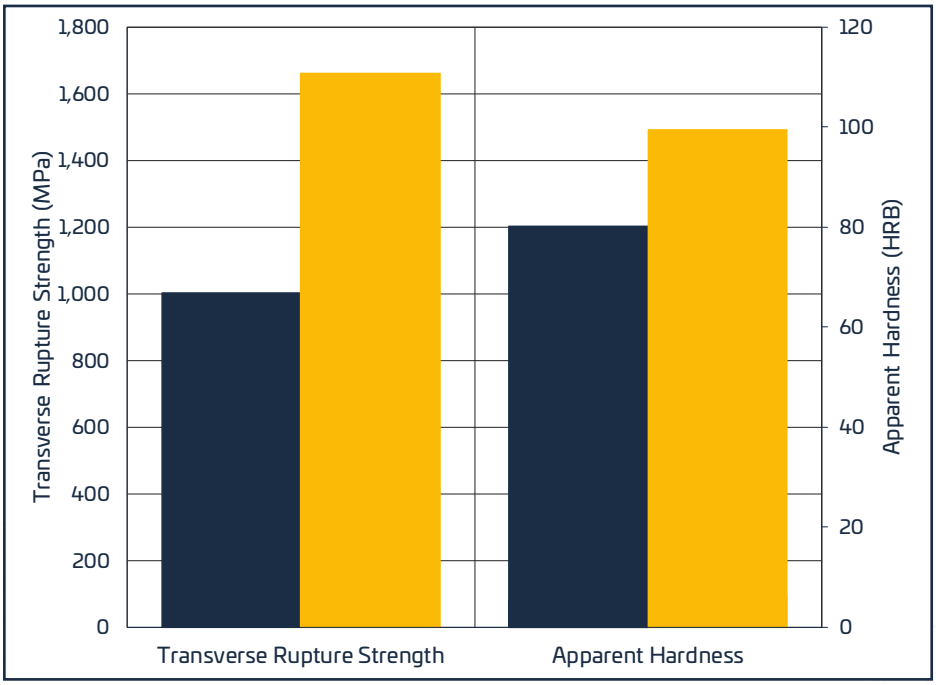
Green Strength



(with 0.75 wt% EBS)

ANCORSTEEL 150 HP

Transverse Rupture Strength Properties

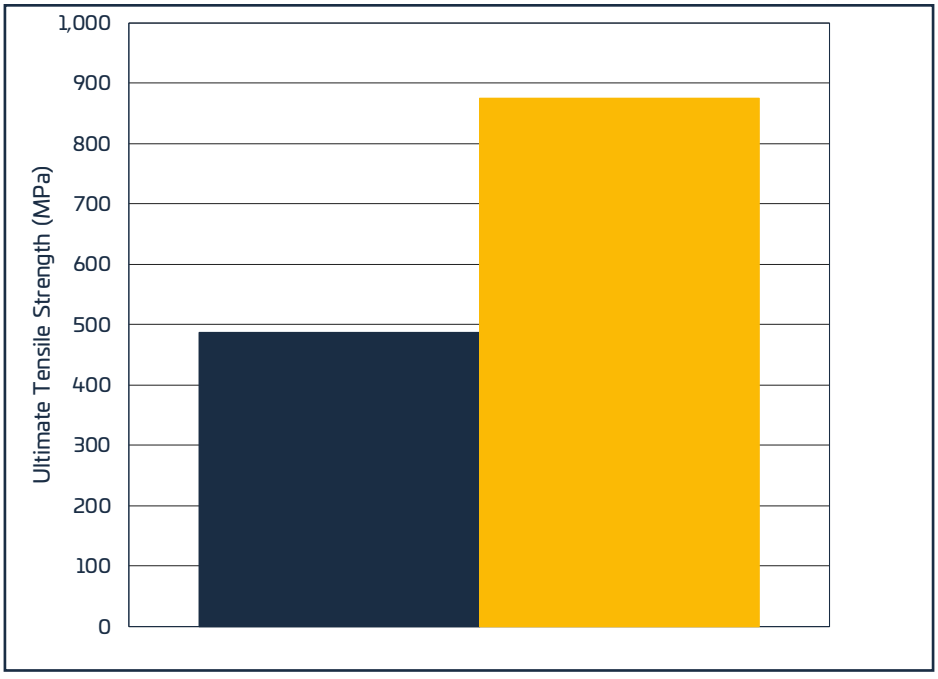


(with 0.6 wt% graphite + 0.75 wt% EBS)

150 HP

150 HP + 2% Nickel

Tensile Properties



(with 0.6 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 with accelerated cooling (~1.7 °C/s). Samples tempered at 200 °C for one hour.