



# Ancorsteel® 1015

## Typical Analysis and Properties

### Composition (w/o)

Fe	Carbon	Si	O	S
Balance	0.25	0.02	0.15	0.015

### Apparent Density

2.65 g/cm<sup>3</sup>

### Flow Rate

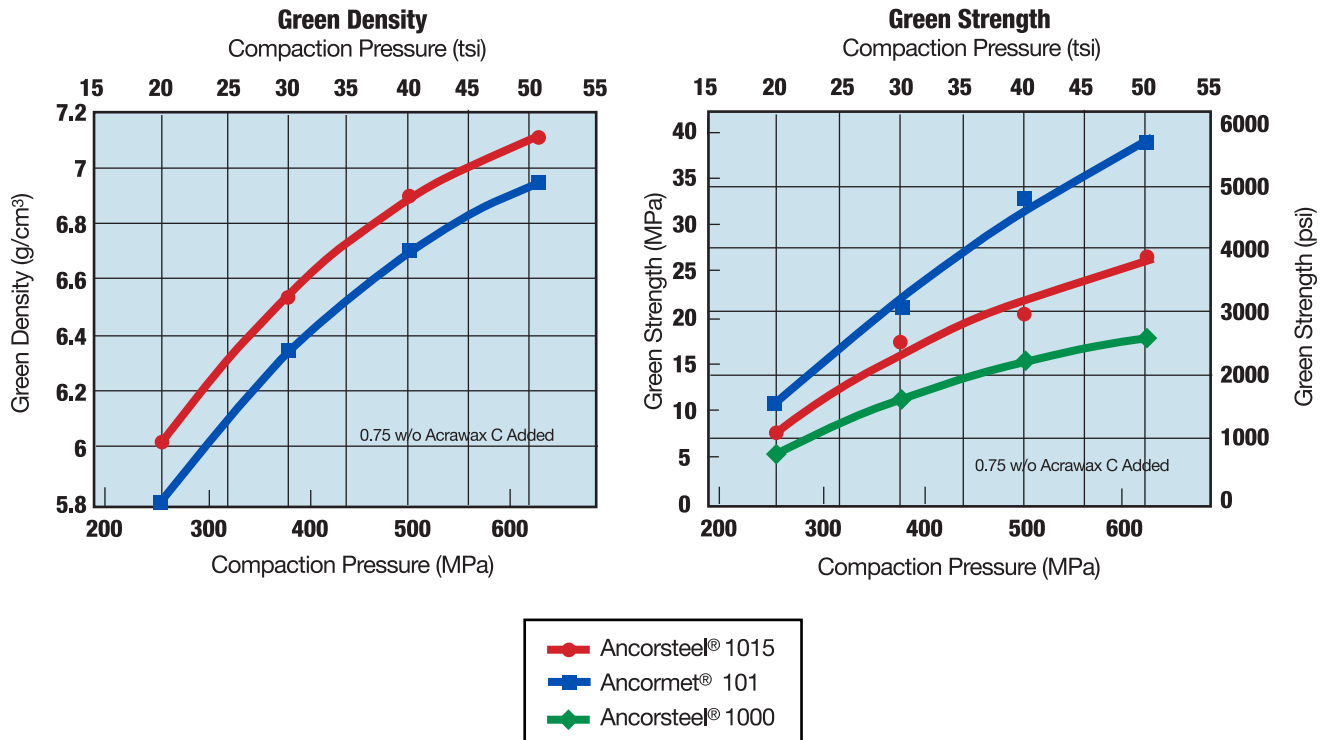
28 s/50 g

*Ancorsteel® 1015 is a low apparent density water atomized powder for structural applications. The atomizing process imparts a spongy morphology to the powder particles giving the material superior green strength with good compressibility. Ancorsteel 1015 results in fast and uniform carbon pick-up during sintering and permits shorter sintering cycles. Dimensional change factors are lower especially in the copper steels.*

### Sieve Distribution (w/o)

Micrometers	+250	-250 /+150	-150 /+45	-45
U.S. Standard Mesh	(+60)	(-60 /+100)	(-100 /+325)	(-325)
	Trace	11	65	24

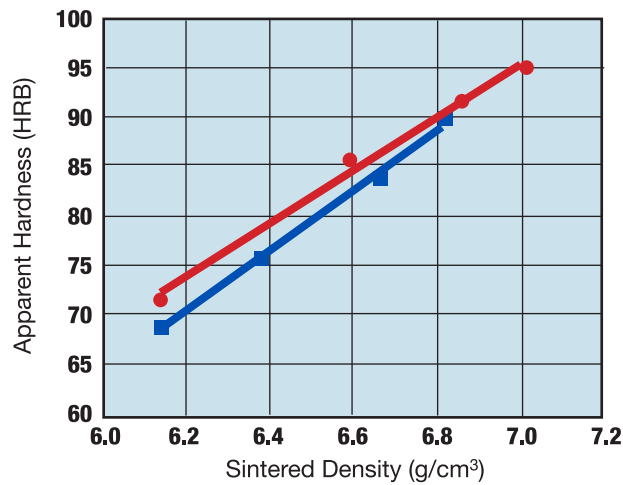
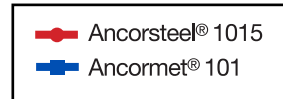
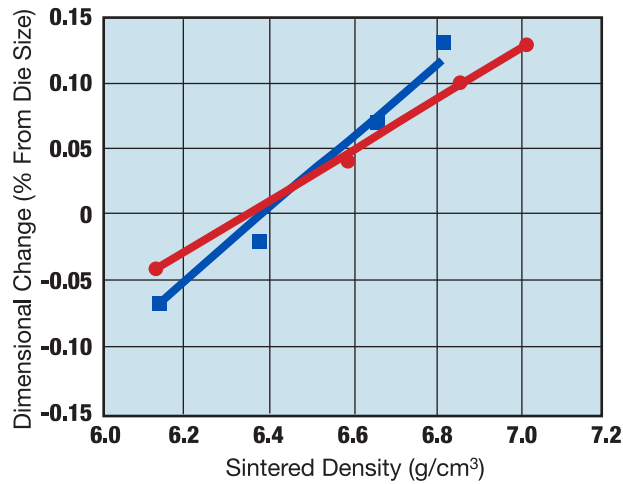
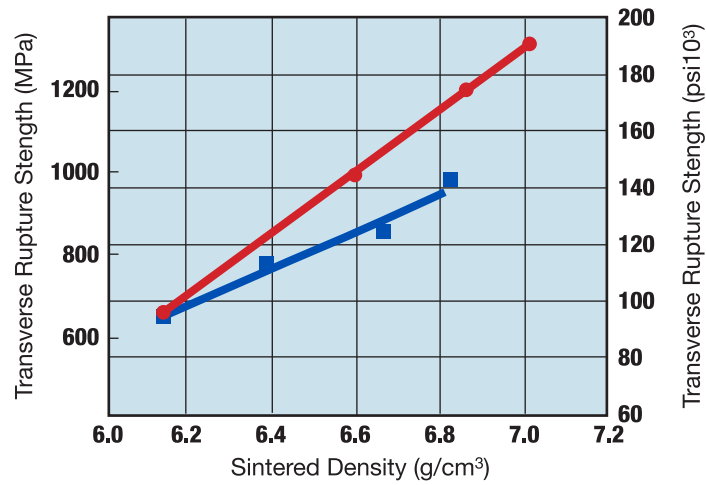
## The Effects of Compaction Pressure on Green Properties



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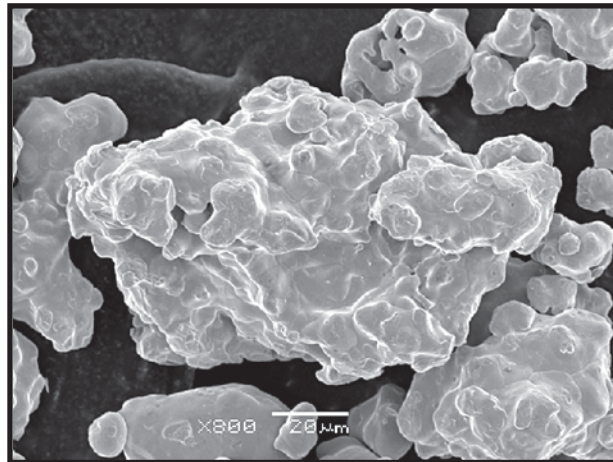
## Comparison of Sintered Properties with Ancormet® 101

Composition: Mixes contain 0.9 w/o graphite, 2 w/o copper and 1 w/o zinc stearate  
 Sintered in dissociated ammonia at 1120 °C (2050 °F) for 30 minutes

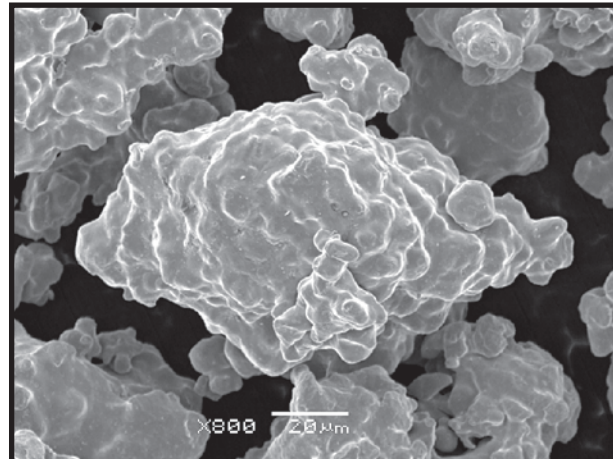


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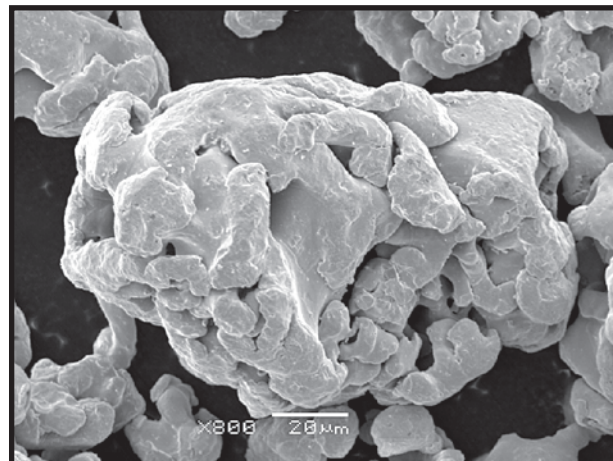
## Typical Powder Morphology



SEM Photomicrograph of Ancorsteel® 1015 800X



SEM Photomicrograph of Ancorsteel® A1000 800X



SEM Photomicrograph of Ancormet® 101 800X

**IMPORTANT NOTICE:** The data shown are based on laboratory processing standard test specimens. Results may vary from those obtained in production processing.