

## Typical Analysis and Properties

### Composition (w/o)

Fe	Carbon	Si	O	S
Balance	0.01	0.02	0.15	0.015

### Apparent Density

2.60 g/cm<sup>3</sup>

### Flow Rate

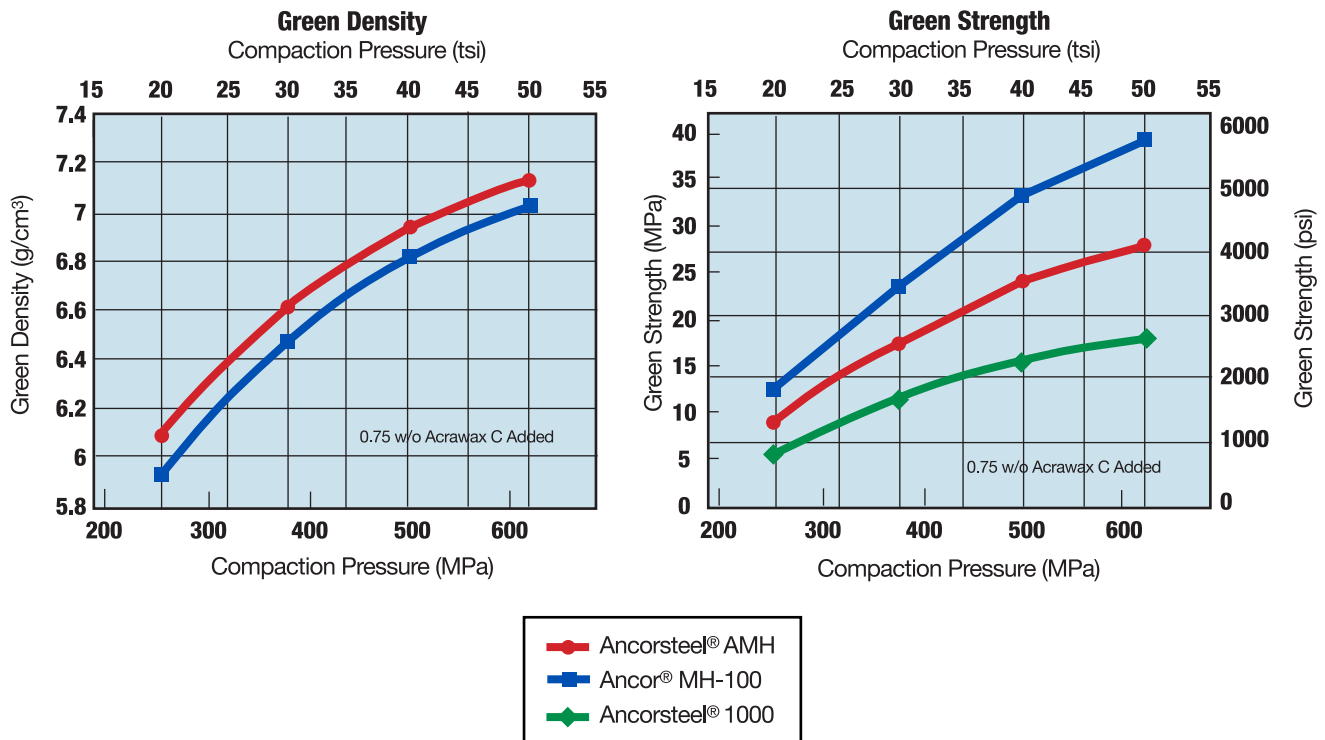
28 s/50 g

*Ancorsteel AMH 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 for an atomized powder combined with good compressibility. The powder production process used to make Ancorsteel AMH involves refining of the liquid metal so that the oxide inclusions typically found in sponge products made using the reduction process are removed.*

### 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

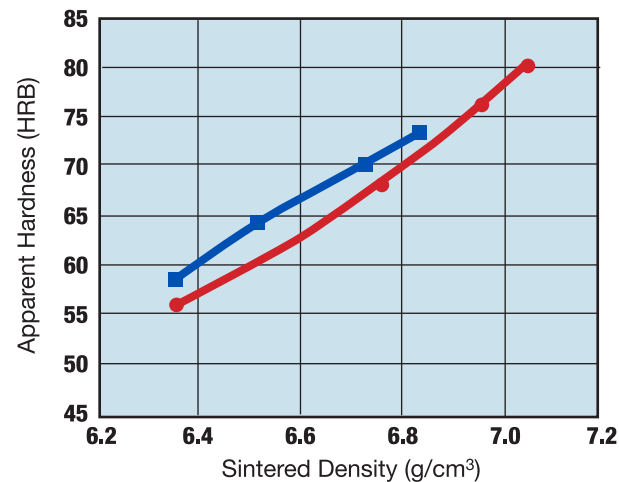
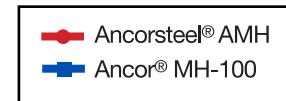
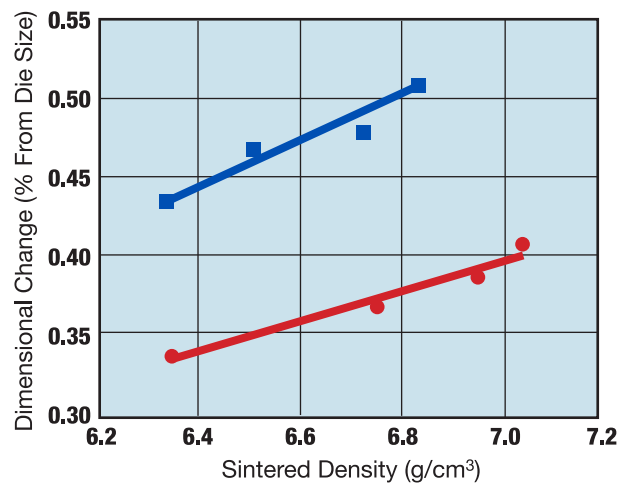
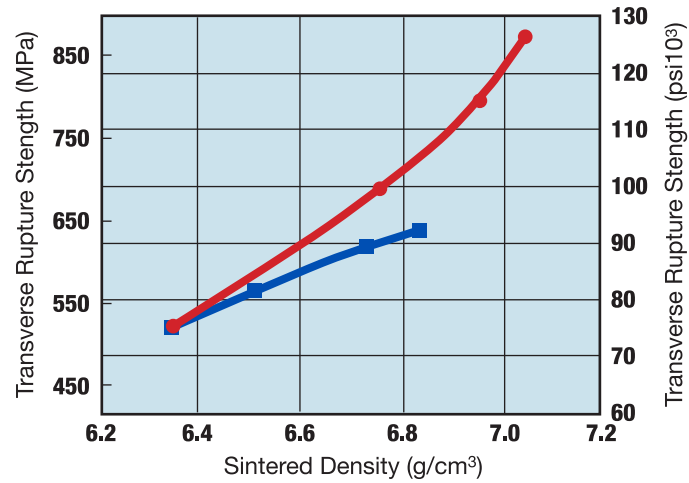
## The Effects of Compaction Pressure on Green Properties



# Ancorsteel® AMH

## Comparison of Sintered Properties with Ancor® MH-100

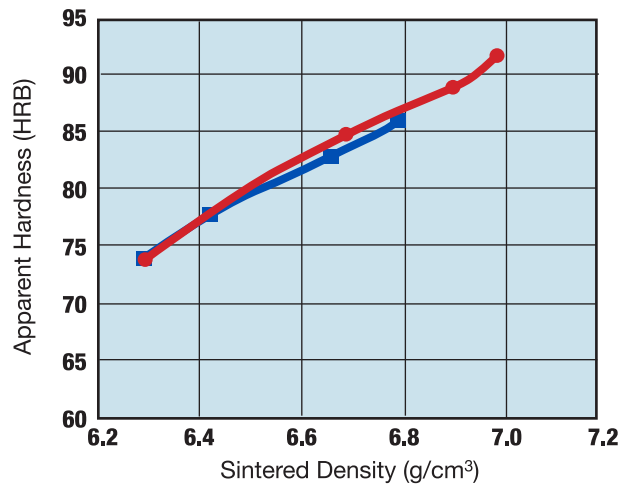
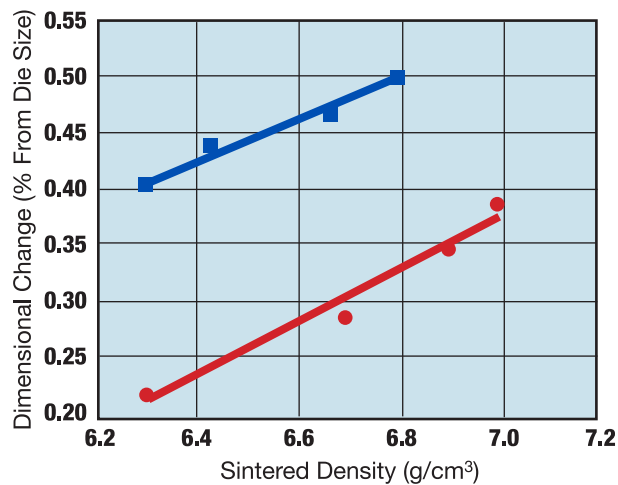
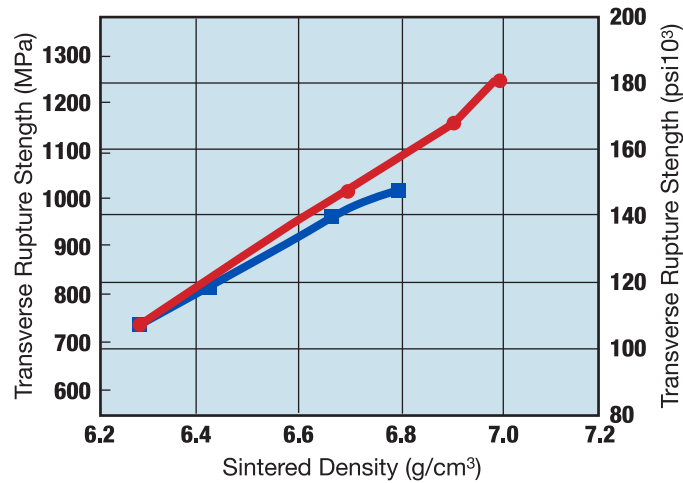
Composition: Mixes contain 1.1 w/o graphite and 1 w/o zinc stearate  
Sintered in dissociated ammonia at 1120 °C (2050 °F) for 30 minutes



# Ancorsteel® AMH

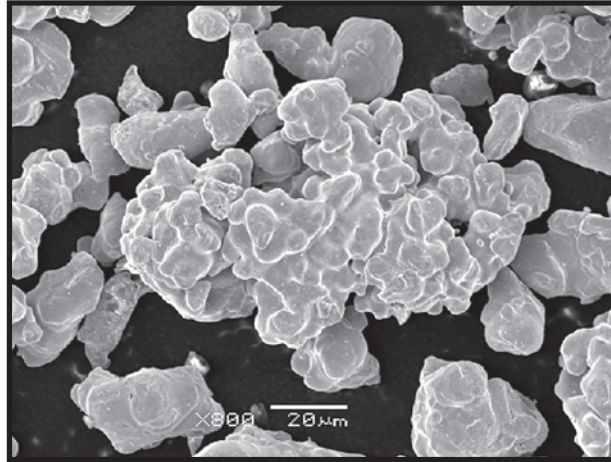
## Comparison of Sintered Properties with Ancor® MH-100

Composition: Mixes contain 1.1 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

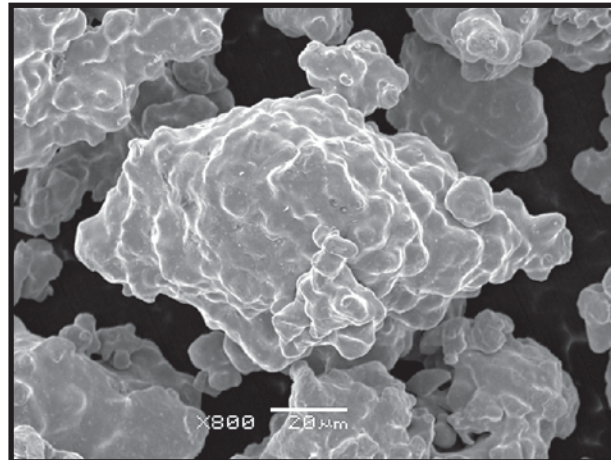


# Ancorsteel® AMH

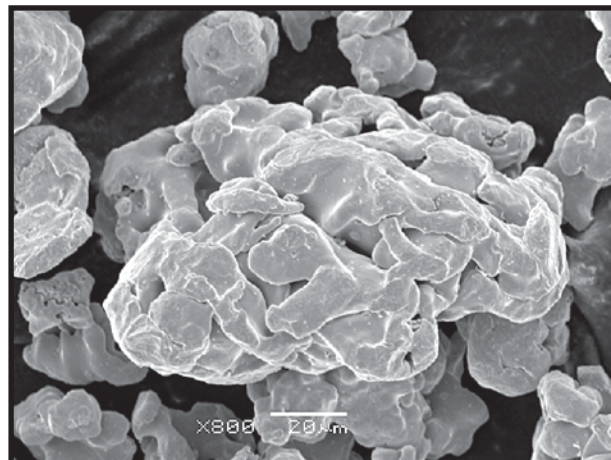
## Typical Powder Morphology



SEM Photomicrograph of Ancorsteel® AMH 800X



SEM Photomicrograph of Ancorsteel® A1000 800X



SEM Photomicrograph of Ancor MH-100 800X

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