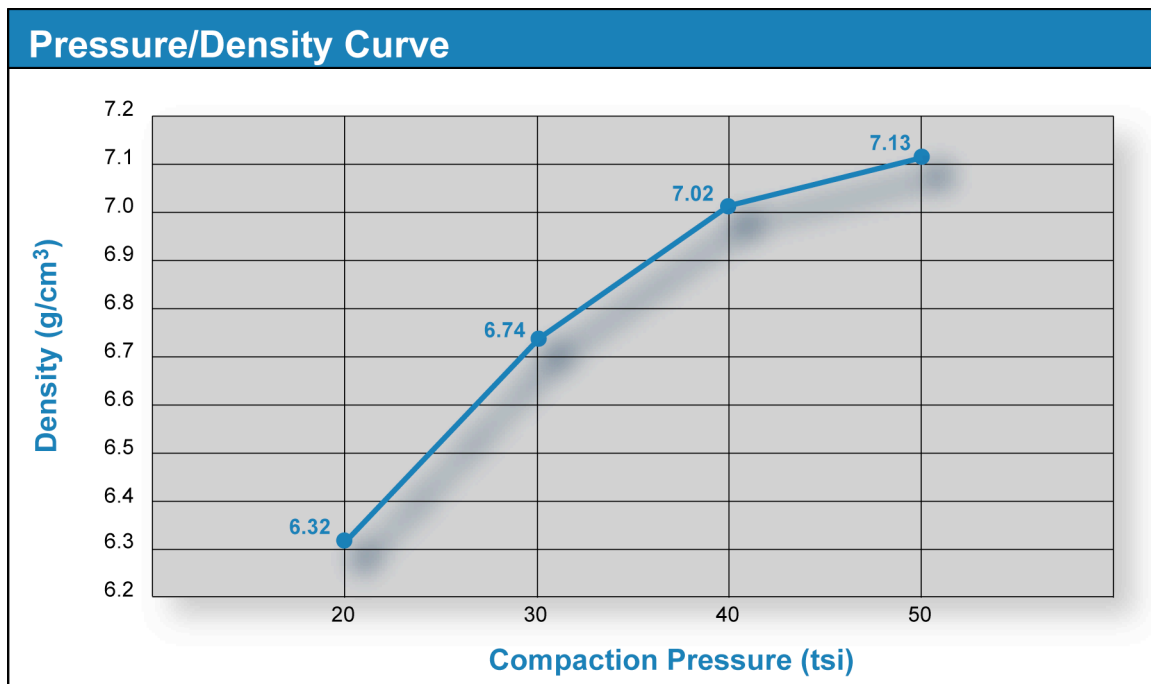


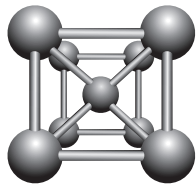
The Rapid Response Premix Facility for the Powdered Metal Industry

FC-0205Re Combination Iron Data Sheet

FC-0205 RE is a combination blend of remill and virgin irons mixed to meet MPIF FC-0205 chemistry requirements. FC-0205 RE is a press ready mix containing 0.75% lubricant. It is commonly used to produce net-shape lawn and garden, light industrial and household goods. FC-0205 RE may be machined, but some applications may not machine as well as virgin powder mixes. Additions of MnS are common for applications requiring machining.

Typical Blend Chemistry (%)	
Chemistry	Typical
Iron	Balance
Copper	1.75
Carbon	0.50
Lubricant	0.74
Others	0.76





The Rapid Response Premix Facility for the Powdered Metal Industry

FC-0205Re Combination Iron Data Sheet

Typical Blend Properties		
	FC-0205Re	Virgin Blend ¹
Hall Apparent Density (g/cm ³)	3.11	3.10
Hall Flow Rate (seconds per 50g.)	31.2	30.6

Typical Compacted Properties		
	FC-0205Re	Virgin Blend ¹
Compacting Pressure to 6.8 g/cm ³ (tsi)	31.5	29.6
Green Strength at 6.8 g/cm ³ (psi)	1580	1830

Typical Sintered Properties ²		
	FC-0205Re	Virgin Blend ¹
Dimensional Change (%)	0.44	0.56
Apparent Hardness (HRb)	60	62
Transverse Rupture Strength (psi)	101,000	114,000

1) A-1000B, 0.60% graphite, 0.75% EBS

2) Compacted to 6.8 g/cm³ and sintered in 90%/10% N₂/H₂