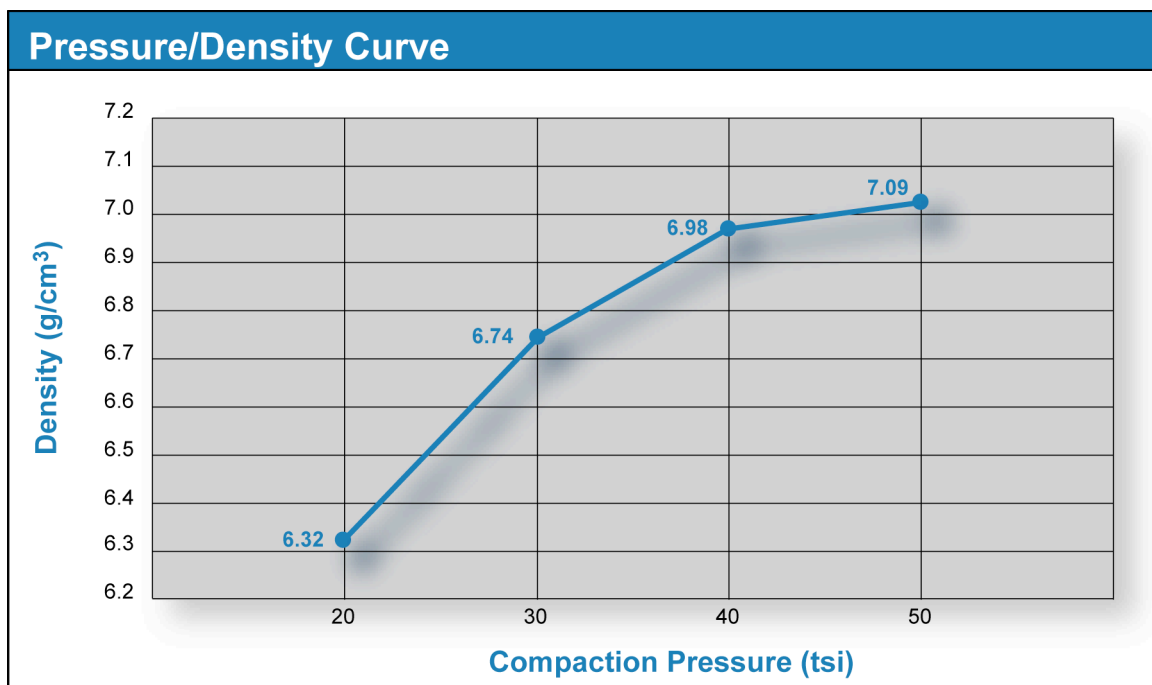


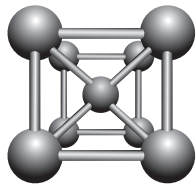
The Rapid Response Premix Facility for the Powdered Metal Industry

FN-0205Re Combination Iron Data Sheet

FN-0205 RE is a combination blend of remill and virgin irons mixed to meet MPIF FN-0205 chemistry requirements. FN-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. FN-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
Nickel	2.00
Carbon	0.50
Lubricant	0.75
Others	0.62





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FN-0205Re Combination Iron Data Sheet

Typical Blend Properties		
	FN-0205Re	Virgin Blend ¹
Hall Apparent Density (g/cm ³)	3.16	3.16
Hall Flow Rate (seconds per 50g.)	30.7	31.0

Typical Compacted Properties		
	FN-0205Re	Virgin Blend ¹
Compacting Pressure to 6.8 g/cm ³ (tsi)	32.7	28.8
Green Strength at 6.8 g/cm ³ (psi)	1320	1750

Typical Sintered Properties ²		
	FN-0205Re	Virgin Blend ¹
Dimensional Change (%)	0.06	0.08
Apparent Hardness (HRb)	52	57
Transverse Rupture Strength (psi)	88,800	96,100

1) A-1000B, 2.00% Nickel, 0.60% graphite, 0.75% EBS

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