

**ADVAMET<sup>®</sup> Feedstock for Metal Injection Molding (MIM)  
TYPICAL CERTIFICATION**

**P/N: MIM-4605-7.6**

(MIM-4605 was formerly designated MIM-4650)

**Product: Blended 4605 (formerly 4650) Steel**  
**Nominal Metal Composition: Fe – 1.8Ni - 0.25Mo**  
**Nominal Binder Content: 7.6%**

Binder: Proprietary wax-polymer base binder  
Metal Powders: Molybdenum  
Nickel  
Unreduced Carbonyl Iron

**Chemical Composition (Weight %)**

Ni	1.5 – 2.5	N	0.55 – 0.85
Mo	0.2 – 0.5	O	0.55 – 0.75
C*	0.65 – 0.85	Si	0.30 – 0.34
		Fe	Balance

\* Proper processing results in 0.4 – 0.6% C in sintered part.

**Viscosity**

16,000 ± 8,000 Poise at 175 C per ASTM D1238 modified  
(Process details available on request)

**Density**

4.84 ± 0.05 g/cm<sup>3</sup> (measured with helium pycnometer )

**Notes**

1. Composition of metal constituents is determined by calculation from vendor data.
2. Composition of sintered material, particularly for C and O contents, depends on processing used by customer.
3. Properly processed feedstock will conform to MPIF Standard 35 Specification MIM-4605.

**Supplier**

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