



N-20 ALUMINUM GRAIN

PRODUCT BULLETIN

ADTECH[®]
Plastic Systems

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DESCRIPTION

N-20 Aluminum Grain is an ideal bulk filler for epoxy resin tooling. The addition of N-20 Aluminum Grain in epoxy tooling applications allows greater flexibility in material casting thickness, lowers material shrinkage values, and improves heat dissipation in mass cast tooling. N-20 is recommended for use with ADTECH's low viscosity epoxy casting resins.

BENEFITS

- Achieve greater casting thickness
- Reduce resin exotherm
- Lower shrinkage values
- Reduce tooling cost
- Improve thermal conductivity
- Improve thermal shock resistance
- Reduce CTE (Coefficient of Thermal Expansion)

Typical Apparent Density: 1.51 gms/cc
 0.054 lbs cu/in
 94 lbs cu/ft

SUGGESTIONS FOR ALUMINUM TO EPOXY (parts by weight) MIX RATIOS:

High Temperature Use, Mass Cast Epoxy Molds for RTM, RIM, vacuum forming, foam molding, compression molding, injection molding, and related applications:

Maximum Fill % = 100 parts-by-weight of catalyzed resin (to) 155 parts-by-weight N-20 aluminum grain

Minimum Fill % Benefit = 100 parts-by-weight of catalyzed resin (to) 111 parts-by-weight N-20 aluminum grain

Room Temperature Use, Mass Cast Epoxy Molds or Dies for metal forming applications or duplications:

100 parts-by-weight of catalyzed resin (to) 111 parts-by-weight N-20 aluminum grain

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Supercedes 5/20/10

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