

# HYTAC<sup>®</sup> - C

## Castable syntactic tooling

HYTAC-C is a one-part castable product in the HYTAC family of syntactics. This product is available as an uncured, single component mixture that may be poured or cast into a wide variety of shapes and sizes. Provided in 1-gallon containers, the pre-mixed syntactic flows smoothly into any tool or cavity.

### After curing, HYTAC-C exhibits the same properties found in CMT's HYTAC-W:

- Low thermal conductivity and specific heat
- Dimensionally stable
- Excellent temperature resistance to 355°F
- Lightweight
- Easily machined

### Typical Properties

<b>Color</b>	White
<b>Density (<math>\rho</math>)</b>	44 lb/ft <sup>3</sup> [705 kg/m <sup>3</sup> ]
<b>Thermal Conductivity (<math>k</math>)</b>	0.16 BTU/hr-ft-°F [0.18 W/m <sup>2</sup> °K]
<b>Coefficient of Thermal Expansion(CTE)</b>	17 x 10 <sup>-6</sup> in/in° F [67.7 x 10 <sup>-6</sup> m/m/°C]
<b>Compressive Strength</b>	8,000 psi [55 Mpa]
<b>Service Temperature</b>	350°F [176 °C]



### Applications

HYTAC-C is shipped as a single component, liquid syntactic material that may be poured or cast at a customer site into any tool or cavity. While this material is temperature-sensitive and requires special handling, it is often a viable alternative to extensive machining of plug shapes. Contact CMT to discuss your application needs.



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