

# TECHNICAL DATA

## THERMABRICK® REFRIGERANT BRICKS

### TEMP-16

Data represents TEMP-16  
ThermaBrick® Refrigerant Bricks.  
ThermaBrick® Refrigerant Bricks are  
cost effective, passive refrigerants that  
are customizable to any size and shape,  
designed to reliably maintain your  
cargo's temperature.

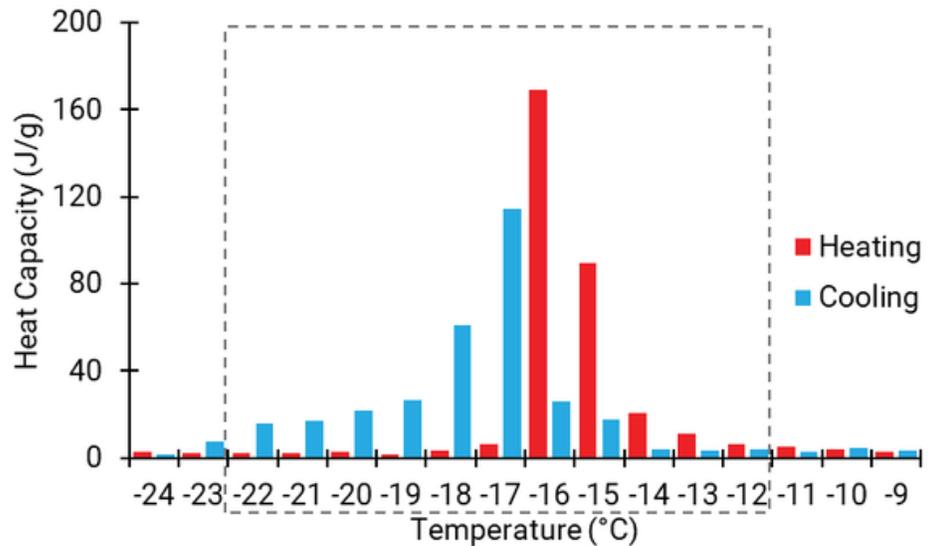
TEMP-16 is an organic based phase  
change material designed for the  
refrigerated temperature market with a  
working temperature of -12 to -22 °C.

ThermaBrick® Refrigerant Bricks with  
Phase Change Materials (PCMs) offer  
precise temperature control to protect  
your payload during shipping transit.

ThermaBrick® Refrigerant Bricks are  
shape stable to most efficiently  
optimize packout. The Temprecision®  
Foam absorbancy actively masks leaks  
and punctures.



ThermaBrick® Refrigerant Bricks TEMP-16



Performance is representative of TEMP-16 ThermaBrick®  
Refrigerant Bricks. DSC is available upon request.

Rev. 1; 03.26

EUROPE

+44 (0) 1917 316 735

INFO@TEMPRECISSION.COM

WWW.TEMPRECISSION.COM

TEMPRECISSION  
INTERNATIONAL

# TECHNICAL DATA

## THERMABRICK® REFRIGERANT BRICKS

### TEMP-16

Properties		
Typical Application Temperature		-12 to -22 °C
Density (Liquid State) at 20 °C		1.131 to 1.132 g/cm <sup>3</sup>
Peak Melting Temperature		-15.6 °C
Total Heat Capacity (Melting)	Weight	333 J/g
	Volume	377 kJ/l
Peak Crystallization Temperature		-17.3 °C
Total Heat Capacity (Crystallization)	Weight	331 J/g
	Volume	374 kJ/l
Results obtained from three layer calorimetry test. Total heat capacity considers 15 °C temperature range across the peak transition temperature. Total heat capacity includes both the sensible and latent heat.		
Latent Heat		256 J/g
Latent heat results obtained by DSC at a heating rate of 0.2 °C/min. The complete TEMP-16 ThermaBrick® Refrigerant Bricks showed no change in 3LC energy performance after 100 freeze-thaw cycles.		

**Disclaimer:** Information provided is based on laboratory testing and is intended as general guidance. End users should validate suitability under their specific conditions. Details are correct to the best of our knowledge at the time of writing but are subject to change without notice. Always refer to the latest version. Liability is limited to the value of the product sold. We are not responsible for performance in further manufacturing or in shipped contents. All trademarks and brand names are the property of Temprecision International. Please consult the Safety Data Sheet (SDS) for proper handling and storage information.