



**Plibrico Company, LLC**  
 1935 Techny Road - Unit 16  
 Northbrook, IL 60062  
 (312) 337-9000  
 www.plibrico.com

# Technical Data Sheet

## T-P85 Series Ceramic Tile Anchor

Product # Various

Available Internationally As: T-P85 Series Ceramic Tile Anchor

### Product Description:

Corrugated 85% alumina ceramic tile anchor for monolithic refractory wall and roof anchoring.  
 T-12-P85, T-13-P85, T-14-P85, T-15-P85

<b>Standard Packaging:</b>	# /	kg
<b>Shelf Life:</b>	months	
<b>Service Limit:</b>	3000 °F	1650 °C
<b>Contact Limit:</b>	°F	°C
<b>Bulk Density - In Service:</b>	181 pcf	2900 kg/m <sup>3</sup>
<b>Bulk Density - To Place:</b>	181 pcf	2900 kg/m <sup>3</sup>

### Abrasion Loss after 1500°F / 815°C

per ASTM C704

cc

Chemistry (calcined) %					
Al <sub>2</sub> O <sub>3</sub>	85.4	Alk		MgO	
SiO <sub>2</sub>	8.0	TiO <sub>2</sub>	3.1	ZrO <sub>2</sub>	
CaO		P <sub>2</sub> O <sub>5</sub>	1.7	Other	
Fe <sub>2</sub> O <sub>3</sub>	1.2	SiC			

### Minimum Time To Firing:

Water Range Per Standard Package		%	Quarts	Liters
<b>Vib Casting</b>	min			
	max			
<b>Casting</b>	min			
	max			
<b>Pumping</b>	min			
	max			

### Coefficient of Thermal Expansion (reversible):

$\times 10^{-6}$  in/in/°F /  $\times 10^{-6}$  mm/mm/°C

Thermal Conductivity	btu*in/hr*ft <sup>2</sup> *°F	W/m°C
500°F / 260°C		
1000°F / 540°C		
1500°F / 815°C		
2000°F / 1090°C		

Temperature		Linear Change% per ASTM C113	CCS per ASTM C133		Cold MOR per ASTM C133		Hot MOR per ASTM C583	
°F	°C		psi	MPa	psi	MPa	psi	MPa
			12000	83.0			2700	18.6

Other Data: PCE - Cone: 38, Porosity: 17%, Rreheat L.C.: -0.5% at 2910°F/1600°C, Load Deformation: -0.3% at 2640°F/1450°C  
 Please refer to Plibrico Anchor System Sheets for specific anchor lengths, dimensions, and proper attachment

Release Date: 1 Dec 2021

Heat Up Guide: N/A

ASTM Class: 85% Alumina Brick

Refractory material should be stored in a cool, dry environment.

**Note:** All data are averaged results of ASTM tests (where applicable) on laboratory specimens. Reasonable variations in data can be expected. Data is not to be used for specification purposes. Product data is periodically updated to reflect product, raw material, process and/or testing changes. Please consult your Plibrico representative to make sure you have the most current data.