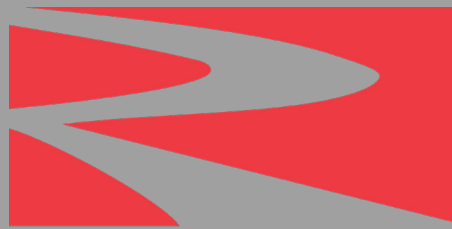


# Conventional Castables



**RESCO**<sup>®</sup>  
PRODUCTS, INC.

[www.RescoProducts.com](http://www.RescoProducts.com)

# Conventional Castables

## Typical Physical Data (English Units): Conventional Castables

Cast Data Product	Service Temp °F	AL <sub>2</sub> O <sub>3</sub> %	Bulk Density (PCF)	Cold Crushing Strength	
Sakonite	2200	33.7	121-127	1000-2000	
Hi-Strength 25	2500	43.5	124-130	1600-2200	
Rescicast 15	2550	46.0	123	2500-5000	
Hi-Strength 26-LI	2600	46.2	122-130	1800-4000	
Rescicast 15GM	2600	46.4	124	5000-8000	
EZ Cast 2700	2700	42.2	140-144	8000-12000	
Rescicast 15HT	2700	49.3	124	2000-4500	
EZ Cast 2800	2800	44.8	135-140	7000-13000	
Hi-Strength 28-LI	2800	45.6	125-134	2000-4000	
Pacocast 28LI	2800	42.0	126	2500-6000	
Pacocast 28 LI Coarse	2800	41.0	126	2500-6000	
Rescicast 17	3000	53.2	133	6500-8500	
Ladleline	3000	56.2	135-143	1200-3200	
Purocast N	3000	62.3	137-140	800-1800	
Purotab	3400	94.0	161-174	7300-9900	
Purotab Coarse	3400	97.0	180-185	3400-9400	
Rescicast 17AC	3400	94.0	174	7000-12000	
Unicrete 94	3400	96.0	175	10000	

## SHOTCRETE/PUMPING

Cast Data Product	Service Temp °F	AL <sub>2</sub> O <sub>3</sub> %	Bulk Density (PCF)	Cold Crushing Strength	
EZ Cubed 2700	2700	42.2	140-144	8000-12000	
EZ Cubed 2800	2800	44.8	135-140	9000-15000	

### **EZ CAST 2700**

This product a general purpose castable designed for applications up to 2700°F. Its high strength and ability to be cast, or poured (self flow) make it the ideal choice for any number of applications where access is limited or obstructions make work difficult. It is particularly effective in applications where destructive gases and atmospheres or excessive wear shorten refractory life. For pumping and shotcreting, EZ Cubed 2700 is suggested.

### **EZ CAST 2800**

This product is designed for applications up to 2800°F and can be cast or poured (self flow). This product has a lower iron oxide level and has tested well for resistance to CO (carbon monoxide) disintegration encountered in coke ovens and blast furnaces. For pumping and shotcreting, EZ Cubed 2800 is suggested.

### **HI-STRENGTH 25**

This product is a 2500°F conventional castable designed for moderate temperatures. It has thermal shock resistance and is widely used as a refractory lining and maintenance material for many different applications.

SAKONITE

HI-STRENGTH 25

RESCOCAST 15

HI-STRENGTH 26-LI

RESCOCAST 15GM

EZ CAST 2700

RESCOCAST 15HT

EZ CAST 2700

RESCOCAST 15HT

EZ CAST 2800

HI-STRENGTH 28-LI

PACOCAST 28LI

PACOCAST 28 LI COARSE

RESCOCAST 17

LADLELINE

PUROCAST N

PUROTAB

PUROTAB COARSE

EZ CUBED 2700

EZ CUBED 2800

# Conventional Castables

Reheat Properties (after 1500 °F)		Thermal Conductivity or “K” Factor (BTU/ft <sup>2</sup> ,hr,°F,in)			
Modulus of Rupture (PSI)	Permanent Linear Change	500 °F	1000 °F	1500 °F	2000 °F
200-600	-0.1 to 0.7	---	7.00*	6.00*	6.10*
300-700	-0.2 to +0.2	---	6.50*	7.10*	8.00*
400-600	-0.1 to +0.3	---	4.00	4.60	5.30
400-600	-0.2 to +0.2	---	---	7.30*	8.00*
500-800	0.0 to -0.2	---	4.00	4.50	5.00
1500-1900	-0.5 to -0.1	11.80*	---	12.20*	11.70*
500-800	0.0 to -0.3	---	4.50	4.80	5.20
1200-1600	0.0 to -0.2	10.70*	---	11.50*	11.50*
400-700	-0.2 to +0.2	---	---	8.10*	8.90*
---	+0.2 to -0.2	---	4.6	4.9	5.4
---	+0.2 to -0.2	---	4.6	4.9	5.4
1200-1500	0.0 to -0.3	---	6.50	6.95	7.35
300-700	-0.4 to 0.0	---	---	9.70*	10.20*
200-300	-0.1 to -0.7	--	---	8.90*	---
1500-2100	-0.1 to -0.5	---	---	16.90*	17.10*
800-1800	-0.3 to -0.6	---	---	---	---
---	0.0 to -0.3	18.3	18.0	118.3	---
---	0.0 to -0.3	---	---	---	---

Reheat Properties		Thermal Conductivity or “K” Factor (BTU/ft <sup>2</sup> ,hr,°F,in)			
Modulus of Rupture (PSI)	Permanent Linear Change	500 °F	1000 °F	1500 °F	2000 °F
1500-1900	-0.5 to -0.1	11.80*	---	12.20*	11.70*
1300-1900	-0.3 to +0.2	10.30*	---	10.60*	11.30*

#### **HI-STRENGTH 26-LI**

This product was developed to be a lower iron 2600°F castable. The lower iron content results in better resistance to reducing atmospheres. It has excellent strength throughout its temperature range and good abrasion and good strengths.

#### **HI-STRENGTH 28-LI**

This product is used for general steel mill applications where destructive gases and atmospheres or excessive wear affect refractory life. It produces a tough, monolithic structure with negligible shrinkage. It has good strengths with a 2800°F use limit.

#### **LADLELINE**

This product is an economical, 3000°F, low-iron, 56% alumina castable. It is volume stable with good strength throughout its temperature range. Although originally designed for casting ladles, LADLELINE has proven to be a good, general-purpose, high temperature castable for a wide variety of applications.

# Conventional Castables

SAKONITE

HI-STRENGTH 25

RESCOCAST 15

HI-STRENGTH 26-LI

RESCOCAST 15GM

EZ CAST 2700

RESCOCAST 15HT

EZ CAST 2700

RESCOCAST 15HT

EZ CAST 2800

HI-STRENGTH 28-LI

PACOCAST 28LI

PACOCAST 28 LI COARSE

RESCOCAST 17

LADLELINE

PUROCAST N

PUROTAB

PUROTAB COARSE

EZ CUBED 2700

EZ CUBED 2800

## **PACOCAST 28LI**

This product combines the qualities of a pyrophyllite/andalusite mineral based composition. It's low iron content makes it ideal for higher temperatures and reducing atmospheres. PACOCAST 28LI should be installed using vibration casting, It is not recommended for gunning. If gunning, use HM-28 LI.

## **PACOCAST 28LI-COARSE**

This product offers the qualities of a Pyrophyllite/Andalusite mineral based composition in a coarse grained package. Maximum aggregate size in this product is 1/2 to 3/4 of an inch. Pacocast 28LI Coarse is designed for use in applications where mechanical abuse and impacts are common.

## **PUROCAST N**

This product is a 3000°F 60% alumina castable. It is a low iron, high alumina material capable of withstanding reducing or hydrogen atmospheres, carbon deposition, and high sulfur fuels. It has good volume stability, excellent resistance to spalling, and good strength. The high alumina content and slag resistance of PUROCAST N castable have made it especially effective when in contact with molten metal and slags.

## **PUROTAB**

This product is a high purity, low iron, 94% alumina castable designed specifically for use at temperatures up to 3400°F. It is highly resistant to reducing atmospheres as well as high sulfur fuels. Due to its trace silica content, it withstands hydrogen atmospheres where silica reduction often occurs. PUROTAB has good volume stability with very good resistance to thermal shock.

## **PUROTAB COARSE**

This product is a specially developed, high alumina (97%), low iron castable. It has superior resistance to carbon monoxide attack due to its extremely low iron content. With its high purity and chemical inertness, oxides and alkalis have little adverse effect. In both ferrous and non-ferrous applications, it resists molten metals and slags. The coarse aggregate improves resistance to thermal shock.

## **RESCOCAST 15**

This product is a 2550°F general duty castable recommended for application in areas where moderate erosion resistance and medium insulating values are required. This mix can be easily installed by casting.

## **RESCOCAST 15GM**

This product is a 2600°F service limit castable used in applications where high strength, moderate abrasion resistance, and medium insulating values are required. RESCOCAST 15GM is an excellent gunning mix that can also be cast.

## **RESCOCAST 15HT**

This product is a 2700°F, 49% alumina castable contains a high-purity cement binder which results in improved physical properties and increased resistance to reducing atmospheres. RESCOCAST 15HT can be applied by casting.

## **RESCOCAST 17**

This product is a 3000°F service limit castable with high strength and erosion resistance properties throughout a wide application temperature range. Specify ProGun 17G for gunite applications.

## **RESCOCAST 17AC • UNICRETE 94**

These products are a high temperature, high purity alumina conventional castable with only trace amounts of silica and iron oxide. The high purity of this castable makes it an ideal choice for reducing atmospheres containing hydrogen and/or carbon monoxide. These products should be installed using vibration casting methods.

## **SAKONITE**

This product is a very economical refractory concrete. Although its maximum service temperature is 2200°F, it is designed primarily for service between 70°F and 1000°F. It is widely used for cast floors exposed to molten metals or hot ingots. It can be casted and finished like ordinary concrete. SAKONITE is also available as GC SAKONITE gun mix.



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