

Precast Shapes | Aluminum | Die Cast

# Plibrico Al-Rezist Corundum Resistant Refractories

Designed For High Performance Furnaces

## PROTECT YOUR VITAL OPERATIONAL EQUIPMENT IN EXTREME ENVIROMENTS

To keep pace with driving demand for products, many aluminum processors are running thermal processing equipment to maximum capacity. As a result, the refractory linings designed to protect furnaces are being challenged as never before. One of the costliest operational challenges is the aggressive formation of corundum deposits in aluminum furnaces.

Excessive, damaging, and costly, corundum growth can be mitigated with the right refractory materials, coupled with the correct maintenance. Plibrico's Plicast Al-Rezist™ line of refractory materials are engineered for processors who run their aluminum melting and holding furnaces hotter and faster for extended periods of time, and therefore require superior aluminum resistant refractory performance.

Plibrico's Plicast Al-Rezist line of low-cement, aluminum resistant castables, resists corundum growth, thermal shock and abrasion, plus is non-wetting to aluminum to ensure an extended service life. Produced with an enhanced multi-additive package for exceptional performance against more aggressive alloys, including those with high fluidity, Al-Rezist exhibits excellent physical properties for demanding service conditions, so downtime is kept to an absolute minimum.

## MEETING DEMANDING ALUMINUM PROCESSOR SERVICE CONDITIONS

Plibrico's Al-Rezist's key properties include:

- **Multi-Component System** prevents aluminum from wetting the surface of the refractory and growing corundum below the surface line
  - No chemical reaction in multiple blind tests, Plicast Al-Rezist had an unmeasurable amount of aluminum penetration while competitive brands had 0.15" amount of penetration
- **Rated Excellent** in ALCOA Refractory Evaluation standards
- **Maximum Strength** at aluminum melting and operating temperatures
  - Strength when you need it the most
- **Easy Installation** with flexible options: Cast, Pump, or VibCast
- **Great for Precast Shapes**
  - The rheology of this material enables smooth crisp shape lines and corners

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ALUMINUM PENETRATION  
AT 1850° F

Our knowledge and experience supporting thousands of customers' refractory needs – provides you with a seasoned partner that can support you with reliable refractory solutions throughout your facility.

In all operating conditions, Plibrico specializes in refractory design, installation, repair and replacement of lower walls and belly bands, division walls, sills and ramps, jambs, and hearths in aluminum furnaces, as well as many other applications. We provide durable refractory solutions that will enhance your operational equipment and keep it up and running smoothly! For a knowledgeable partner you can trust, contact us today at 312-337-9000.

Plibrico Al-Rezist Products	Non-Contact Service Temperature (° F)	Contact Service Temperature (° F)	Bulk Density (pcf)		CCS (psi)		HMOR
			In Service	To Place	230° F	1500° F	1500° F
Plicast Al-Rezist 80	3000	1800	170	170	10000	11000	1800
Plicast Al-Rezist 70	3000	1800	165	165	10000	10000	1650
Plicast Al-Rezist 65	2800	1800	160	160	2641	1685	2000

**Refractory Material and Services Centered Around Your Needs  
Powered by Knowledgeable Experts with Genuine Experience**



**Plibrico Refractory Solutions**

**Refractories**

• **Engineering**

• **Construction**



312-337-9000 | [contact@plibrico.com](mailto:contact@plibrico.com)  
[www.plibrico.com](http://www.plibrico.com)

1935 Techny Road – Unit 16, Northbrook, IL 60062

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