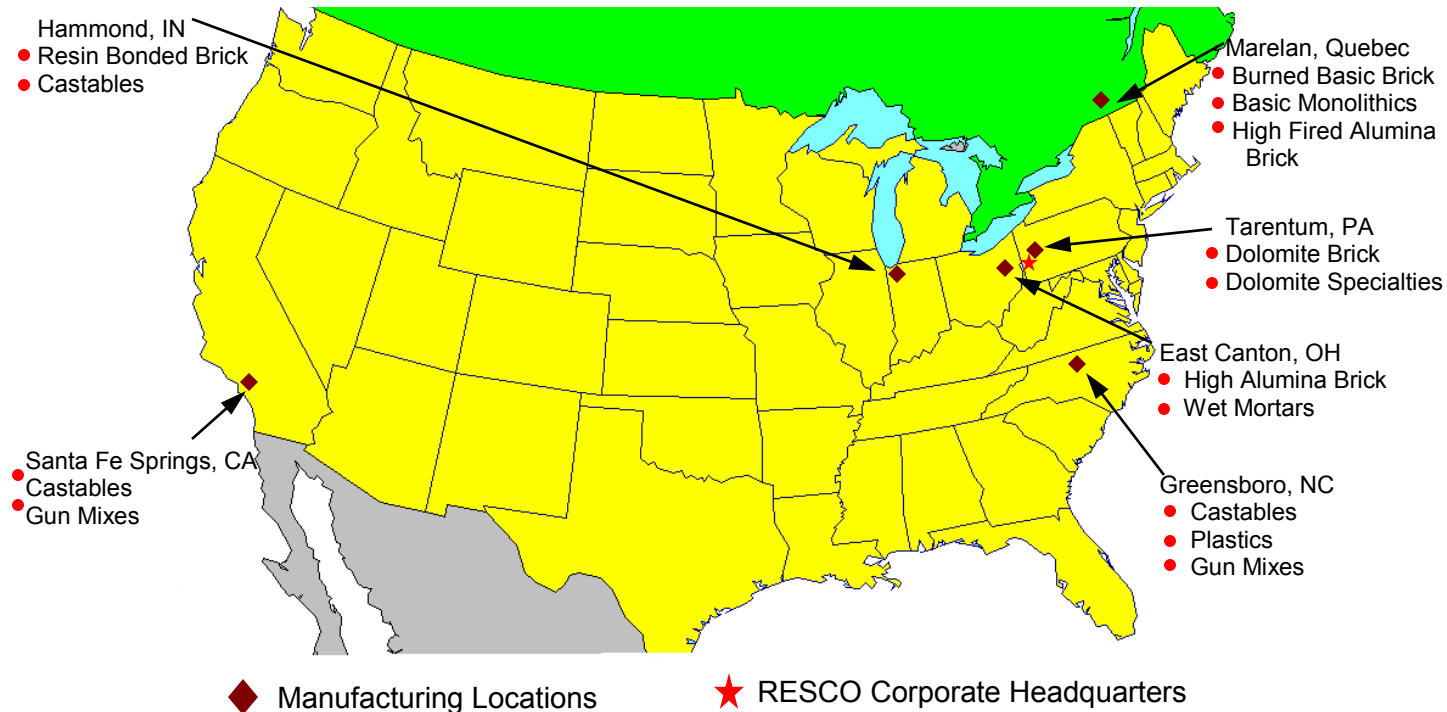


Resco Manufacturing Locations



Regional Sales Offices

Pittsburgh, PA Phone: 888.283.5505 Fax: 412.494.4571	Austin, TX Phone: 813.645.4060 Fax: 813.354.3555	Canada Customer Service Phone: 450.691.2933 Fax: 450.691.2966	Tarentum: WRI Phone: 724.224.8800 Fax: 724.224.3353
Greensboro (Cartop/Minerals) Phone: 336.299.1441 Fax: 336.855.8375	Santa Fe Springs, CA Phone: 562.802.2463 Fax: 562.802.0315		

Founded in 1946, Resco has served its markets with specialized products ever since, initially, with the refining industry and later in the steel industry. Innovations have been key to Resco's long success, including AA-22 and the original patent on semi-universal ladle brick.

Recent acquisitions have diversified Resco into many new refractory markets. The addition of National's product lines allows Resco to offer a comprehensive range of products, and dolomite products are available since the Worldwide acquisition was completed.



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July 2010

ALUMEX[®] P-7

ALUMEX[®] P-8

ALUMEX[®] P-85 HS

ALUMEX[®] P-7

ALUMEX[®] P-8

ALUMEX[®] P-85 HS

ALUMEX[®] P-7

ALUMEX[®] P-8

ALUMEX[®] P-85 HS

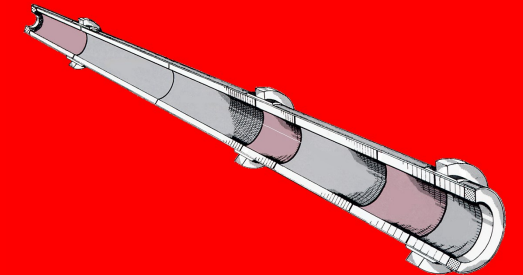
ALUMEX[®] P-7

ALUMEX[®] P-8

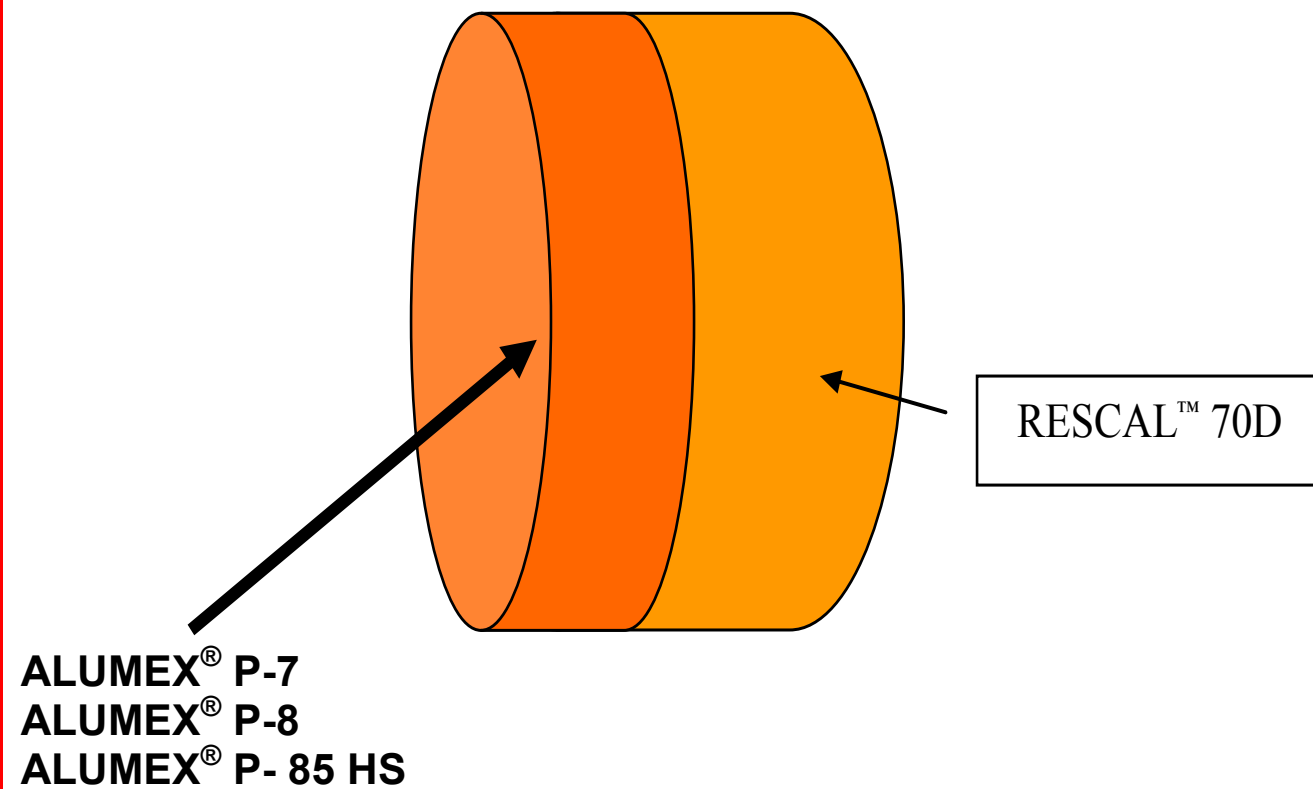
ALUMEX[®] P-85 HS

ALUMEX

Rotary Cement Kiln Discharge Zone Refractories



Rotary Cement Kiln Discharge Zone Refractories



Discharge zones typically have wear factors unique in rotary kiln linings. Normally there are one or two steel retainer rings in the kiln discharge zone whose purpose is to restrain the brickwork uphill of the discharge. Because of the down-hill thrust of the kiln brickwork, the discharge zone refractory is required to bear exceptionally high mechanical loading. For this application, phosphate-bonded high alumina brick are selected as they exhibit high mechanical strength.

In addition to the mechanical stresses, the refractory must have sufficient thermal shock resistance to endure the rapid changes in temperature that can occur in this zone. The discharge zone is normally the first refractory to cool during an outage in a rotary kiln.

Finally, the discharge refractory must have good abrasion resistance to withstand the hot abrasion of the clinker.

The phosphate-bonded ALUMEX® family of brick brands offers good, better and best solutions to the conditions present in the kiln discharge.

ALUMEX® P-7 is a 70% alumina class brick with moderate phosphate content is a standard for discharge zones.

For higher temperatures and greater mechanical strength, ALUMEX® P-8 serves as an upgrade to the 70% alumina class ALUMEX® P-7.

ALUMEX® P-85-HS demonstrates the highest strength and temperature resistance in the 80% alumina class.

	ALUMEX® P-7	ALUMEX® P-8	ALUMEX® P-85-HS
Bulk Density, pcf	168	173	174
Apparent Porosity	14.5%	14.0%	13.8%
Modulus of Rupture, psi	2,000	1900	2,500
Cold Crush Strength, psi	10,000	11,500	14,000
Permanent Linear Change after heating at 1600°C for 5 hours	+3.0%	+2.0%	+0.4%
Approximate Chemical Analysis (calcined basis):			
Al ₂ O ₃	71.5%	76.5%	79.2%
SiO ₂	21.6	14.1	10.2
Fe ₂ O ₃	1.1	1.6	1.7
TiO ₂	2.9	3.2	3.1
P ₂ O ₅	2.3	3.0	4.9

For the latest brand information and data, please refer to our website, www.rescoproducts.com.


Resco for the long run