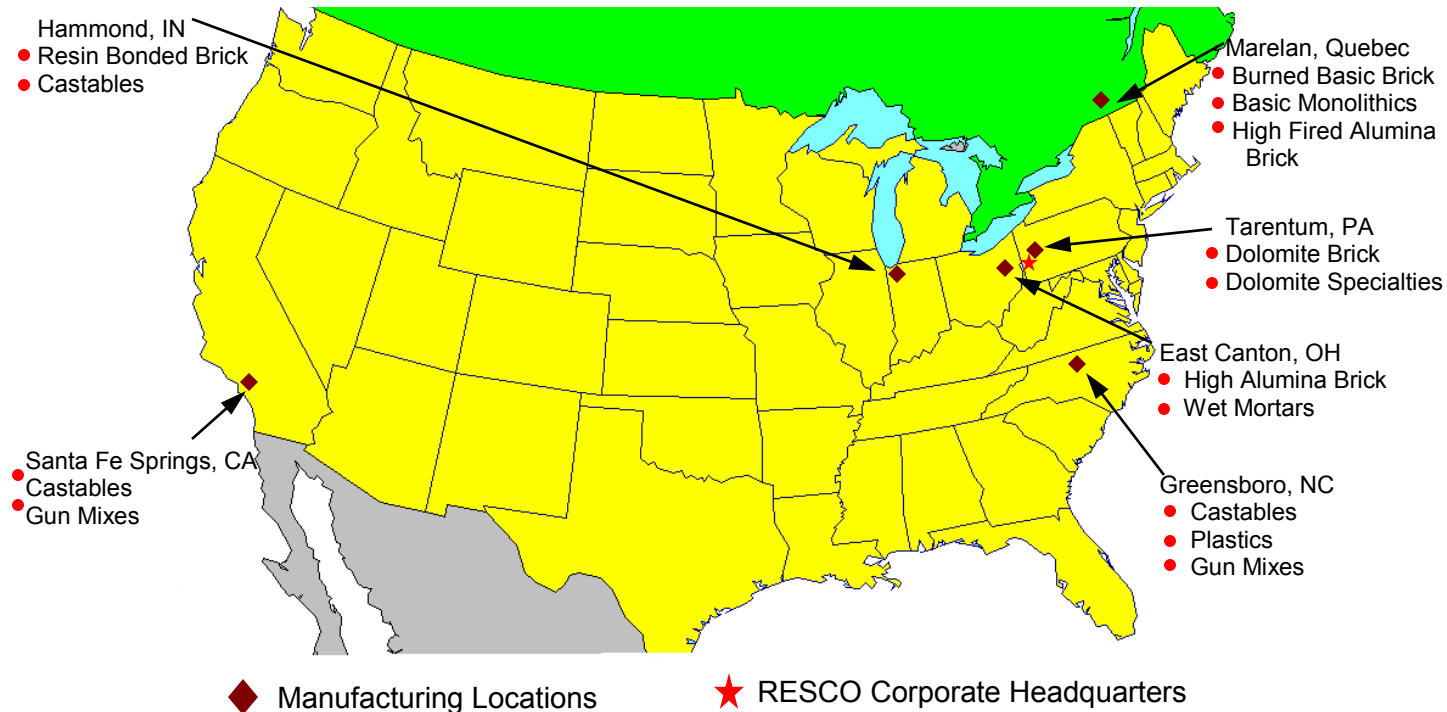


Resco Manufacturing Locations



Regional Sales Offices

Pittsburgh, PA Phone: 888.283.5505 Fax: 412.494.4571	Tampa, FL 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
King of Prussia, PA Phone: 610.292.3500	Gary, IN Phone: 219.886.9767 Fax: 219.886.9821	Greensboro (Cartop/ Minerals) Phone: 336.299.1441	Santa Fe Springs, CA Phone:

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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April 2007

R-MAX C
R-MAX G
R-MAX MP
R-MAX SF
Furna³ R-MAX
R-MAX PC
R-MAX PC QT
R-MAX G QT

R-MAX C

R-MAX G

R-MAX MP

R-MAX SF

R-MAX

EXTREME
ABRASION
RESISTANT
MONOLITHIC
REFRACTORIES



R-MAX

Take your Refractories to the MAX.

Abrasion or erosion is the mechanical wearing away of a solid. In industrial processes, abrasion or erosion is a major concern and a maintenance issue. In the high temperature processes, monolithic refractories play a major role in reducing the detrimental effects of abrasion or erosion on the availability and economics of the industrial process. R-MAX abrasion resistant products are formulated to minimize downtime and maximize the availability of abrasion-prone processes.

R-MAX MP is a 2400°F (1260°C) multi-purpose (MP) abrasion resistant castable which can be hand-packed, vibration cast, and gunned. The product's zero-slump and soft, "easy to install" texture results in high handpack installation rates. Other features of R-MAX MP include extremely high cold crushing strength and extremely low abrasion loss.

R-MAX C is 3200°F (1760°C) low cement, high performance castables that are designed to have very low abrasion loss and maximized physical properties. **R-MAX C** can be installed by vibration casting, pump casting, and wet shotcreting methods. R-MAX G is installed using conventional dry-gunning equipment.

R-MAX SF is a self-leveling, abrasion resistant castable that should be used in areas of severe abrasion and when a self leveling castable is desired. This product has a maximum service temperature of 3400°F and a 93% alumina content.

FURNA³ R-MAX is a 70% alumina, high performance castable that has excellent non-wetting characteristics in molten aluminum contact applications. It also has maximum abrasion resistance and high strengths. This product is intended to be used in high wear areas of aluminum melting furnaces. It can be installed using vibration casting, pumping, or shotcrete methods.

R-MAX PC, and **R-MAX PC QT** are 3200°F (1760°C) low cement, high performance castables that are designed to have very low abrasion loss and maximized physical properties when installing by pump casting, and wet shotcreting methods. **R-MAX PC QT** combines our QuikTurn technology with the R-Max advantages in a pump-cast shotcretable mix.

R-MAX G and **R-MAX G QT** are 3200°F (1760°C) low cement, high performance gun mixes that are designed to have very low abrasion loss and maximized physical properties. **R-MAX G QT** combines our QuikTurn technology with the R-Max advantages in a dry gunning mix.

PRODUCT		R-MAX MP	R-MAX C	R-MAX SF	FURNA ³ R-MAX	R-MAX PC	R-MAX PC QT	R-MAX G	R-MAX G QT
Maximum Service Temp.	°F	2400	3200	3400	2730	3200	3200	3200	3200
	°C	1316	1760	1870	1499	1760	1760	1760	1760
Bulk Density	lb/Ft ³ , 220°F	---	170	182	---	170	---	164	150
	kg/m ³ , 110°C	---	2,720	2,912	---	2,720	---	2,624	2,400
	lb/Ft ³ , 1500°F	178	167	180	170	167	174	159	147
Cold Crushing Strength	kg/m ³ , 815°C	2,851	2,672	2,880	2,720	2,672	2,784	2,544	2,352
	lb/in ² , 1500°F	19,000-30,000	15,000-23,000	18,000-22,000	22,500	12,000-15,000	21,500	10,000-14,000	9500
Modulus of Rupture	kg/cm ² , 815°C	1,330-2,100	1,055-1,617	1,260-1,540	1,582	840-1,050	1,505	700-980	665
	lb/in ² , 1500°F	---	---	---	2,900	2,500-3,300	---	---	---
Thermal Conductivity (K-Factor)	kg/cm ² , 815°C	---	---	---	204	175-231	---	---	---
	BTU,ft ² ,oF,in., 1000°F	18.8	11.0	10.8	11.0	11.0	---	11.0	---
	W/m, K, 540°C	2.71	1.59	1.56	1.59	1.59	---	1.59	---
	BTU,ft ² ,oF,in., 1500°F	---	10.0	9.7	10.0	10.0	---	10.0	---
	W/m, K, 815°C	---	1.44	1.39	1.44	1.44	---	1.44	---
	BTU,ft ² ,oF,in., 2000°F	--	10.0	---	10.0	10.0	---	10.0	---
Erosion Loss	W/m, K, 1095°C	--	1.44	---	1.44	1.44	---	1.44	---
	cc, 1500°F (815°C)	<4.0	<4.0	<4.0	<4.0	<5.0	3.0	<5.0	8
Permanent Linear Change	%, 1500°F (815°C)	0.0 to -0.4	0.0 to -0.3	0.0 to -0.3	0.0 to -0.3	-0.1 to -0.3	0.0 to -0.2	-0.1 to -0.4	0.0 to -0.3
Chemical Analysis, %	Al ₂ O ₃	79.5	71.2	92.8	71.9	71.2	80.2	73.1	72.5
	SiO ₂	11.7	24.1	5.4	23.2	24.1	14.2	22.0	22.2
	Fe ₂ O ₃	0.9	1.3	0.1	0.8	1.3	1.1	1.4	1.3
	TiO ₂	2.2	1.5	--	1.9	1.5	2.7	1.6	2.2
	CaO	2.9	1.7	1.5	1.8	1.7	1.1	1.7	1.4
	MgO		--	--	--	---	0.2	--	0.2
	Alkalies	--	0.2	0.2	0.4	0.2	0.5	--	0.2

FURNA³ R-MAX was formerly R-MAX CA

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

