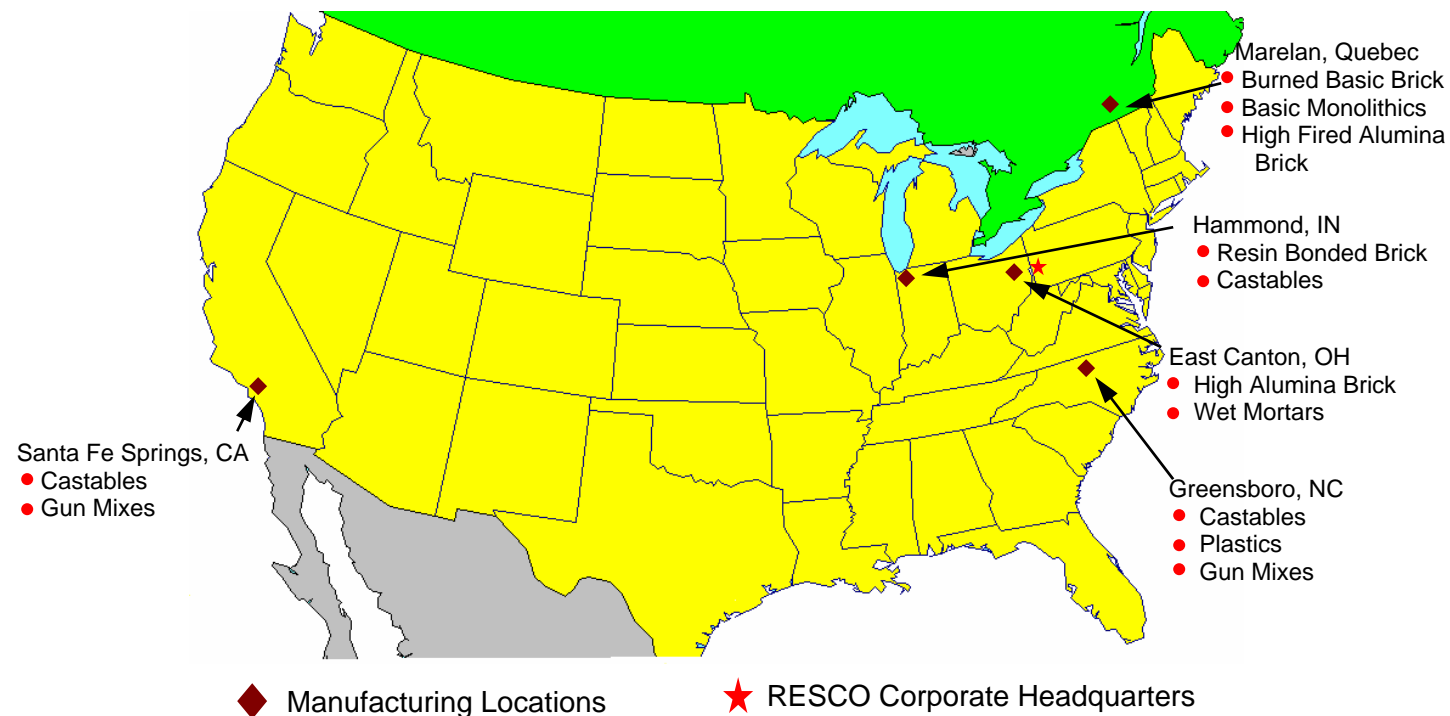


Resco Manufacturing Locations



Regional Sales Offices

Pittsburgh, PA	Nacogdoches, TX	Santa Fe Springs, CA	Resco Canada
Phone: 888.283.5505	Phone: 936.560.3335	Phone: 562.802.2463	Phone: 819.242.2721
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RESCO for the Long Run

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.



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R-MAX C
R-MAX G
R-MAX MP
R-MAX CA
R-MAX SF
Furna³ R-MAX
R-MAX PC
R-MAX PC 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. R-MAX MP can be gunned directly into hexmesh for abrasion resistant linings. Other features of R-MAX MP include extremely high cold crushing strength and extremely low abrasion loss.

R-MAX C and **R-MAX G** are 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 CA 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 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.

PRODUCT		R-MAX MP	R-MAX C	R-MAX SF	FURNA ³ R-MAX	R-MAX PC	R-MAX PC QT	R-MAX G
Maximum Service Temp.	°F	2400	3200	3400	2730	3200	3200	3200
	°C	1260	1760	1870	1499	1760	1760	1760
Bulk Density	lb/Ft ³ , 220°F	---	170	182	173	170	---	164
	kg/m ³ , 110°C	---	2,720	2,912	2,768	2,720	---	2,624
	lb/Ft ³ , 1500°F	180	167	180	170	167	174	159
	kg/m ³ , 815°C	2,880	2,672	2,880	2,720	2,672	2,784	2,544
Cold Crushing Strength	lb/in ² , 1500°F	20,000-25,000	20,000-25,000	18,000-22,000	20,000-25,000	12,000-15,000	21,500	10,000-14,000
	kg/cm ² , 815°C	1,400-1,750	1,400-1,751	1,260-1,540	1,400-1,750	840-1,050	1,505	700-980
Modulus of Rupture	lb/in ² , 1500°F	4,000-7,000	2,500-3,300	4,000-6,000	2,500-3,300	2,500-3,500	---	1,800-2,300
	kg/cm ² , 815°C	280-490	175-231	280-420	175-231	175-231	---	126-161
Thermal Conductivity (K-Factor)	BTU,ft ² ,°F,in., 1000°F	12.1	11.0	12	11.0	11.0	---	11.0
	W/m, K, 540°C	1.74	1.59	1.73	1.59	1.59	---	1.59
	BTU,ft ² ,°F,in., 1500°F	11.2	10.0	11.0	10.0	10.0	---	10.0
	W/m, K, 815°C	1.61	1.44	1.58	1.44	1.44	---	1.44
	BTU,ft ² ,°F,in., 2000°F	--	10.0	11.0	10.0	10.0	---	10.0
	W/m, K, 1095°C	--	1.44	1.6	1.44	1.44	---	1.44
Erosion Loss	cc, 1500°F (815°C)	<4.0	<4.0	<4.0	<4.0	<5.0	3.0	<5.0
Permanent Linear Change	%, 1500°F (815°C)	-0.2 to -0.4	-0.1 to -0.3	-0.1 to -0.3	-0.1 to -0.3	-0.1 to -0.3	-0.1	-0.1 to -0.4
Chemical Analysis, %	Al ₂ O ₃	79.5	71.2	92.8	71.9	71.2	80.2	73.1
	SiO ₂	11.7	24.1	5.4	23.2	24.1	14.2	22
	Fe ₂ O ₃	0.9	1.3	0.1	0.8	1.3	1.1	1.4
	TiO ₂	2.2	1.5	--	1.9	1.5	2.7	1.6
	CaO	2.9	1.7	1.5	1.8	1.7	1.1	1.7
	MgO		--	--	--		0.2	--
	Alkalies	--	0.2	0.2	0.4	0.2	0.5	--

FURNA³ R-MAX was formerly R-MAX CA

