

RESCOBOND AA-22S is the world standard for abrasion resistant castables. Rescobond AA-22S is a 3000°F (1650°C) high alumina castable with a unique air-setting bond. The air-setting bond is not hygroscopic, even with no heating, unlike conventional phosphate-bond plastics. AA-22S will also bond to other refractory surfaces with minimal preparation, making this product suitable for patching worn refractory surfaces. Other features of AA-22S include high cold crushing strength, very low abrasion loss, and a long storage life. AA-22S is also a single component castable that is mixed only with water to achieve the proper consistency. In addition to having superior physical properties, AA-22S has established itself as the leader in abrasion/erosion resistance. The high alumina content of AA-22S lends itself to having excellent refractoriness for a variety of applications. Applications which Rescobond AA-22S is recognized for include refinery and petro-chemical, cyclone and vessel linings. The storage life of Rescobond AA-22S is excellent; it can be stored for up to 24 months under the proper conditions. AA-22S can be installed by handpacking, pneumatic ramming, gunning, and vibration casting. When the situation involves abrasion, choose the original "abrasion resistant castable", Rescobond AA-22S, the standard to which other materials are compared. AA-22 Brush Mix and AA-22 Caulking Mix are also available.

R-MAX MP is a 2400°F (1316°C) multi purpose (MP) abrasion resistant castable which can be handpacked, 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 / R-Max G are 3200°F (1760°C) low cement, high performance castables that are designed to have a 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 gunite equipment.

RESCOCAST 17EC/17EG are Resco's widely specified standard abrasion resistant monoliths. Rescocast 17EC can be installed using vibration casting. Rescocast 17EG is installed by gunning using conventional gunite equipment. Typical applications for these products include U-Bends, Y-Sections, overhead lines, and other catalyst transfer lines. Rescocast 17EC has a density of 130 pcf and an abrasion loss of less than 10 cc. The ease of placement using vibration and extended working time has made Rescocast 17EC widely specified for refinery applications. Rescocast 17EG has a gunned density of 128 pcf and an abrasion loss of less than 14cc. This product features low rebounds and uniform flow through the gunite equipment.

RESCOCAST 17EPC is the pumpable version of Rescocast 17EC. This product can be installed by vibration casting, pumpcasting, and wet shotcrete methods. Rescocast 17EPC features good working time, a cast density of 127 pcf, and abrasion loss of less than 14cc. Typical applications include U-Bends, Y-Sections, overhead lines, and other catalyst transfer lines where abrasion is a concern.

RESCOCAST 17AC/17AG are high purity, 95% alumina, cement-bonded monoliths with a maximum service temperature of 3400°F (1870°C). The trace amounts of iron oxide and silica contents (<0.1% each) make it suitable for application in hydrogen and carbon monoxide-rich, reducing atmospheres. Rescocast 17AC is installed by vibration casting. Rescocast 17AG is installed by gunning using conventional gunite equipment.

RESCOCAST 88VC/ 88HP were designed to meet rigid lining specifications for critical wear areas in high-erosion applications. The physical test results define the product name...an abrasion loss of less than 8 cc and a thermal conductivity of less than 8. Rescocast 88VC is installed by vibration casting (VC) only. Rescocast 88HP is formulated by handpacking (HP) only. Other features of these products include a maximum service temperature of 2750°F (1510°C), a bulk density of 134 pcf, and cold crushing strength of 10,000 psi.

RESCOCAST 17EMC/17EMG are unique, thermal shock resistant, cement-bonded monoliths with a maximum service temperature of 2500F (1370°C). These monoliths feature low thermal conductivity, excellent resistance to thermal shock, a cast density of 106 pcf for 17EMC (gunned density of 112 pcf for 17EMG). Rescocast 17EMC is installed by vibration casting. Rescocast 17EMG is installed by gunning using conventional gunite equipment.

RESCOCAST 110C/ 110G have the unique combination of high mechanical strength along with impressive insulating value. These products feature a maximum service temperature of 2400°F (1315°C), bulk densities of 110 pcf, crushing strengths greater than 5000 psi, K Factor ranging from 5 to 6, and abrasion loss less than 12 cc. Rescocast 110C installed by vibration casting. Rescocast 110G is installed by gunning using conventional gunite equipment.

This brochure features our major products. For the latest brand information and data, please refer to our website, www.rescoproduct.com

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R-MAX MP
R-MAX C/G
RESCOCAST 17EC
RESCOCAST 17EG
RESCOCAST 17EPC
RESCOCAST 17AC
RESCOCAST 17AG
RESCOCAST 88VC
RESCOCAST 88HP
RESCOCAST 17EMC
RESCOCAST 17EMG
RESCOCAST 110C
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RESCOCAST 17AC
RESCOCAST 17AG
RESCOCAST 88VC
RESCOCAST 88HP

**EXTREME
SERVICE
CASTABLES**



Extreme Service Products

Cast Data

PRODUCT	RESCOBOND AA-22S		R-MAX MP		RESCOCAST 17 EC		R-MAX C		RESCOCAST 17 AC		RESCOCAST 88VC		RESCOCAST 17EMC		RESCOCAST 110C			
	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC		
Maximum Service Temperature	°F	°C	2600	1427	2400	1316	2750	1510	3200	1760	3400	1870	2750	1510	2500	1370	2400	1315
Bulk Density (lb/Ft ³ :kg/m ³)	220°F	110°C	158-170	2,528-2,720	---	---	137	2,192	170	2,720	180	2,880	140	2,240	116	1,856	120	1,920
	1500°F	815°C	168	2,688	173-183	2,768-2,928	130	2,083	167	2,672	174	2,784	134	2,144	106	1,696	110	1,760
Cold Crushing Strength (lb/in ² : kg/cm ²)	1000°F	815°C	---	---	---	---	---	---	---	---	9,000-12,000	630-840	10,000-14,000	700-980	---	---	---	---
	1500°F	815°C	16,000-25,000	1120-1,750	19,000-30,000	1,330-2,100	8,000-11,000	560-770	15,000-23,000	1,050-1,610	8,000-12,000	560-840	10,000-14,000	700-980	5,000-9,000	350-630	6,000-11,000	420-770
Thermal Conductivity (K-Factor) (Ft ² ,F,in.: W/m, °K)	1000°F	540°C	14.3	2.08	18.8	2.71	7.4	1.07	11.0	1.59	10.8	1.56	8.0	1.15	5.0	0.72	6.0	0.86
	1500°F	815°C	14.0	2.03	--	---	8.0	1.15	10.0	1.44	9.8	1.41	8.4	1.21	5.6	0.81	5.4	0.78
	2000°F	1095°C	14.2	2.06	--	---	8.4	1.21	10.0	1.44	9.7	1.40	8.5	1.22	6.0	0.86	---	---
Erosion Loss	cc, 1500°F (815°C)		<3.5		<3.0		<10.0		<4.0		<12.0		<8.0		---		<12.0	
Permanent Linear Change	%, 1500°F (815°C)		0.0 to -0.3		0.0 to -0.4		0.0 to -0.3		0.0 to -0.3		0.0 to -0.3		0.0 to -0.3		0.0 to -0.3		0.0 to -0.3	

PRODUCT	Gunited Data										Hand Pack Data			
	R-MAX G		RESCOCAST 17EG		RESCOCAST 17AG		RESCOCAST 17EMG		RESCOCAST 110G		RESCOCAST 88HP			
	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
Maximum Service Temperature	°F	°C	3200	1760	2750	1510	3400	1870	2500	1370	2400	1315	2750	1510
Bulk Density (lb/Ft ³ :kg/m ³)	220°F	110°C	164	2,627	135	2,160	174	2,784	117	1,874	117	1,874	140	2,270
	1500°F	815°C	159	2,544	128	2,048	168	2,688	112	1,794	110	1,762	134	2,144
Cold Crushing Strength (lb/in ² : kg/cm ²)	1500°F	815°C	10,000-14,000	700-980	5,000-8,000	350-560	5,000-8,000	350-560	3,000-6,000	210-420	5,000-9,000	350-630	10,000-14,000	700-980
Thermal Conductivity (K-Factor) (Ft ² ,F,in.: W/m, °K)	1000°F	540°C	11.0	1.59	6.5	0.94	10.8	1.56	5.0	0.72	6.0	0.86	7.3	1.05
	1500°F	815°C	10.0	1.44	6.8	0.98	9.8	1.41	5.6	0.80	5.4	0.78	7.4	1.07
	2000°F	1095°C	10.0	1.44	6.9	0.99	9.7	1.40	6.0	0.87	---	---	7.5	1.09
Erosion Loss	cc, 1500°F (815°C)		<5.0		<14.0		<15.0		---		<14.0		<8.0	
Permanent Linear Change	%, 1500°F (815°C)		-0.1 to -0.4		0.0 to -0.3		0.0 to -0.3		0.0 to -0.3		0.0 to -0.3		0.0 to -0.3	

Cast data shown are average results of control tests based on sample formation using ball-in-hand consistency methods, ASTM C-860-00 "Standard Practices for Determining and measuring Consistency of Refractory Concretes" (for castables only). The results are subject to normal variations in manufacturing, testing, and installation procedures.

Gunit data shown are average results following sample preparation using the guidelines set forth in ASTM C-903-98, "Standard Practices for Preparing Refractory by Cold Gunning." The results are subject to normal variations in manufacturing, testing, and installation procedure.

Contact your local sales representative or check RESCO's website, www.rescoproducts.com for the latest technical data.