

ARTECH

ARTECH TECHNOLOGIES INC
Superior Abrasion Resistant Materials

ACTCHEM[®]
Superior Abrasion Resistant Materials



	Service Temp. (°F)	Chemistry (%)					Bulk Density (pcf)		CCS (psi)		Abr. (cc) 1500°F	PLC (%) 1500°F
		Al ₂ O ₃	SiO ₂	CaO	Fe ₂ O ₃	TiO ₂	230°F	1500°F	230°F	1500°F		
Castable												
ACTCHEM 45	2300	46.2	46.4	3.2	0.7	1.2	147	142	>10000	>15000	≤ 6	-0.2 to -0.3
ACTCHEM 45 VC	2700	43.4	49.2	3.3	1.0	1.7	139 - 147	138 - 144	>10000	>14000	≤ 7	-0.2 to -0.3
ACTCHEM 45 VC-S	2700	43.3	49.4	3.2	0.9	1.8	137 - 145	137 - 141	>10000	>14000	≤ 7	-0.2 to -0.3
ACTCHEM 75	2300	75.0	16.7	3.1	1.1	2.5	172	170	>10000	>20000	≤ 4	-0.2 to -0.4
ACTCHEM 75 VC	2800	80.0	13.0	2.4	1.1	3.0	155 - 165	155 - 165	>8000	>15000	≤ 4	-0.2 to -0.4
ACTCHEM 85	2300	83.4	7.9	2.3	1.0	2.3	180 - 188	178 - 186	15000	>15000	≤ 3	-0.2 to -0.4
ACTCHEM 85 AB	2300	81.8	9.2	2.2	1.2	2.4	176 - 184	175 - 183	13000	>13000	≤ 4	-0.2 to -0.4
ACTCHEM 85 FG	2300	83.9	8.4	2.5	0.9	2.1	173 - 177	172 - 176	10000	>15000	< 4	-0.2 to -0.5
ACTCHEM 85 RST	2300	83.4	7.9	2.3	1.0	2.3	180 - 188	178 - 186	15000	>15000	≤ 3	-0.2 to -0.4
ACTCHEM 85 VC	2800	85.8	8.3	2.4	0.8	2.2	183 - 188	180 - 186	>13000	>13000	≤ 4	-0.4
ACTCHEM 100 VC	1800	34.5	56.0	3.6	3.4	0.6	103 - 108	100 - 105	>5000	>7000	≤ 15	-0.3 to -0.1
ACTCHEM 110 VC	2400	43.0	49.4	3.3	2.3	0.8	110 - 115	106 - 112	10000	10000	≤ 12	-0.3 to -0.1
ACTCHEM 140 VC	2300	43.3	49.1	3.4	1.0	1.8	137 - 144	137 - 141	>10000	>12000	≤ 8	-0.2 to -0.3
ACTCHEM SC 55	2300	33.8	6.4	2.3	0.1	-----	172	169	15000	14000	≤ 7	-0.1 to -0.3
ACTCHEM SC 15 VC	3200	57.1	21.0	1.6	0.8	1.8	160 - 165	159 - 164	>15000	>15000	≤ 7	-0.1 to -0.3
ACTCHEM MP	2300	83.7	8.5	2.5	0.9	2.1	180 - 185	175 - 185	15000	>20000	≤ 3	-0.2 to -0.4
ACTCHEM FS	2000	14.3	80.3	3.1	0.1	0.1	126	123	>8000	>10000	≤ 10	-0.0 to -0.3

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		Al ₂ O ₃	SiO ₂	CaO	Fe ₂ O ₃	TiO ₂	230°F	1500°F	230°F	1500°F		
Trueflow/Self-Flow												
ACTCHEM 45 TF	2700	48.5	46.5	3.2	0.3	0.4	141 - 147	139 - 145	>7000	>12000	< 7	-0.2 to -0.4

	Service Temp. (°F)	Chemistry (%)					Bulk Density (pcf)		CCS (psi)		Abr. (cc) 1500°F	PLC (%) 1500°F
		Al ₂ O ₃	SiO ₂	CaO	Fe ₂ O ₃	TiO ₂	650°F	1500°F	650°F	1500°F		
Gunitite												
ACTCHEM 45 G	2300	46.2	46.4	3.2	0.7	1.2	136*	136	>10000*	>15000	< 8	-0.2 to -0.3
ACTCHEM 45 G-S	2300	46	46.5	3	0.7	1.3	139*	137	>10000*	>15000	< 8	-0.2 to -0.3

* Data after 650°F

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