



Wear-Con Densit® Product Comparison

Product		Standard	Densit® WearSpray™	Densit® WearSpray™	Densit® WearFlex™	Densit® WearFlex™	Densit® WearFlex™	Densit® WearFlex™	Densit® WearFlex™	Densit® WearFlex™	Densit® WearCast™	Densit® WearCast™	Densit® WearCast™	Densit® WearCast™	Densit® WearCast™
			500	2000	500	1000	1000HT	2000	2000HT	3000	500	1000	2000	2000HT	3000
Property	Unit														
Density	lb/ft ³ (kg/m ³)	EN 1015-16	142 (270)	164 (2625)	150 (2400)	165 (2650)	175 (2800)	181 (2900)	190 (3050)	161 (2575)	150 (2400)	175 (2800)	184 (2950)	190 (3050)	167 (2675)
Compressive Strength	MPa	EN 12190	100	110	100	200	130	160	170	130	130	210	170	170	150
Fluxural Strength	MPa	EN191-1	15	12	16	25	22	20	16	20	16	28	23	16	20
Dynamic E-Modul	MPa	EN	70-75-10 ³	60-70-10 ³	70-80-10 ³	70-80-10 ³	70-80-10 ³	70-80-10 ³	70-80-10 ³	70-80-10 ³	70-80-10 ³	70-80-10 ³	70-80-10 ³	70-80-10 ³	70-80-10 ³
Casting Shrinkage	vol. %	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Thermal Conductivity	w/m°C	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	5	1.5	1.5	1.5	1.5	5
Coef. of Thermal Expansion	1/°F (1/°C)	EN 1770	5.6x10 ⁻⁶ (10x10 ⁻⁶)	5.6x10 ⁻⁶ (10x10 ⁻⁶)	5.6x10 ⁻⁶ (10x10 ⁻⁶)	5.6x10 ⁻⁶ (10x10 ⁻⁶)	3.8x10 ⁻⁶ (6.9x10 ⁻⁶)	5.6x10 ⁻⁶ (10x10 ⁻⁶)	3.6x10 ⁻⁶ (6.9x10 ⁻⁶)	5.6x10 ⁻⁶ (10x10 ⁻⁶)	5.6x10 ⁻⁶ (10x10 ⁻⁶)	5.6x10 ⁻⁶ (10x10 ⁻⁶)	5.6x10 ⁻⁶ (10x10 ⁻⁶)	3.6x10 ⁻⁶ (6.9x10 ⁻⁶)	5.6x10 ⁻⁶ (10x10 ⁻⁶)
Heat Capacity	kJ/kg°C	-	0.9-1.0	0.9-1.0	0.9-1.0	0.9-1.0	0.9-1.0	0.9-1.0	0.9-1.0	0.9-1.0	0.9-1.0	0.9-1.0	0.9-1.0	0.9-1.0	0.9-1.0
Max. Service Temp.	°F (°C)	-	750 (400)	750 (400)	750 (400)	750 (400)	2190 (1200)	750 (400)	2190 (1200)	750 (400)	750 (400)	750 (400)	750 (400)	2190 (1200)	750 (400)
Shrinkage after firing at 932°F (500°C)	%	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-
Shrinkage after firing at 1472°F (800°C)	%	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-
Shrinkage after firing at 2192°F (1200°C)	%	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-
Abrasion Resistance	cm ³ /50cm ²	DIN 52108	2.5-3.5	1.5-2.0	2.5-3.5	1.5-2.0	2.0-3.0	0.5-1.0	0.5-1.0	0.5-1.0	2.5-3.5	1.5-2.0	0.5-1.0	0.5-1.0	0.5-1.0
Erosion Resistance	min/cm ³	-	55	100	55	85	70	130	170	280	60	85	140	170	300
Chemical Composition	% CaO	-	15	13	18	20	7	18	6	17	18	22	18	6	16
	% SiO ₂	-	82	35	80	30	7	25	6	14	79	15	25	6	22
	% SiC	-	-	-	-	-	-	-	-	59	-	-	55	87	59
	% Al ₂ O ₃ + TiO ₂	-	1	50	1	48	83	55	87	7	14	60	-	-	1
	% Fe ₂ O ₃	-	<0.2	<0.2	<0.2	<0.7	<0.8	<0.2	<0.3	<0.6	<0.2	<0.8	<0.2	<0.3	<0.5
	% CR _{6r}	EN 196-10	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Bag Size	lb (kg)	55 (25)	55 (25)	55 (25)	55 (25)	55 (25)	55 (25)	55 (25)	55 (25)	55 (25)	55 (25)	55 (25)	55 (25)	55 (25)	55 (25)
Pallet Size	lb (kg)	2750 (1250)	2750 (1250)	2750 (1250)	2750 (1250)	2750 (1250)	2750 (1250)	2750 (1250)	2750 (1250)	2750 (1250)	2750 (1250)	2750 (1250)	2750 (1250)	2750 (1250)	2750 (1250)