



Wear-Con Densit® Product Comparison

Product		Standard	Densit® WearSpray™ 500	Densit® WearSpray™ 2000	Densit® WearFlex™ 500	Densit® WearFlex™ 1000	Densit® WearFlex™ 2000	Densit® WearFlex™ 2000HT	Densit® WearFlex™ 3000	Densit® WearCast™ 500	Densit® WearCast™ 1000	Densit® WearCast™ 2000	Densit® WearCast™ 2000HT	Densit® WearCast™ 3000
Property	Unit													
Density	lb/ft³ (kg/m³)	EN 1015-16	142 (270)	164 (2625)	150 (2400)	165 (2650)	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	160	170	130	130	210	170	170	150
Flexural Strength	MPa	EN 191-1	15	12	16	25	20	16	20	16	28	23	16	20
Dynamic E-Modul	MPa	EN	70-75-10³	60-70-10³	70-80-10³	70-80-10³	70-80-10³	70-80-10³	70-80-10³	70-80-10³	70-80-10³	70-80-10³	70-80-10³	70-80-10³
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
Thermal Conductivity	w/m°C	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)	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
Max. Service Temp.	°F (°C)	-	750 (400)	750 (400)	750 (400)	750 (400)	750 (400)	2190 (1200)	750 (400)	750 (400)	750 (400)	750 (400)	2190 (1200)	750 (400)
Shrinkage after firing at 932°F (500°C)	%	-	-	-	-	-	-	-	-	-	-	-	-	-
Shrinkage after firing at 1472°F (800°C)	%	-	-	-	-	-	-	-	-	-	-	-	-	-
Shrinkage after firing at 2192°F (1200°C)	%	-	-	-	-	-	-	-	-	-	-	-	-	-
Abrasion Resistance	cm³/50cm²	DIN 52108	2.5-3.5	1.5-2.0	2.5-3.5	1.5-2.0	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/cm³	-	55	100	55	85	130	170	280	60	85	140	170	300
Chemical Composition	% CaO	-	15	13	18	20	18	6	17	18	22	18	6	16
	% SiO₂	-	82	35	80	30	25	6	14	79	15	25	6	22
	% SiC	-	-	-	-	-	-	-	59	-	-	55	87	59
	% Al₂O₃ + TiO₂	-	1	50	1	48	55	87	7	14	60	-	-	1
	% Fe₂O₃	-	<0.2	<0.2	<0.2	<0.7	<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)
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)