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
Fluxural Strength	MPa	EN191-1	15	12	16	25	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
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 (1500°C)	%	-	-	-	-	-	-	-	-	-	-	-	-	-
Shrinkage after firing at 1472°F (1800°C)	%	-	-	-	-	-	-	-	-	-	-	-	-	-
Shinkage 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
	% SiO_2	-	82	35	80	30	25	6	14	79	15	25	6	22
	% SiC	-	-	-	-	-	-	-	59	-	-	55	87	59
	% Al203 + TiO_2	-	1	50	1	48	55	87	7	14	60	-	-	1
	% Fe_2O_3	-	<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_{6+}	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
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)

2845 E. Heartland Drive, Liberty, MO 64068 • 888-4WEARCON (888-493-2726) • 816-587-1923 • Fax 816-587-2055 • maxwear@wearcon.com • www.wearcon.com