

Kst Values for Common Dusts:

Any value greater than zero is a potential explosion risk

Dust Explosion Class	Kst (bar.m/s)	Characteristic	Typical Material
St 0	0	No explosion	Silica
St 1	>0 and ≤200	explosion	Powdered milk, charcoal, sulphur, sugar, zinc
St 2	>200 and ≤300	Strong explosion	Cellulose, wood, flour, polymethyl acrylate
St 3	>300	Very strong explosion	Anthraquinone, aluminium, magnesium

Dust	KSt Value	Characteristic	ST Class	Dust	KSt Value	Characteristic	ST Class
Activated carbon	44	Explosion	1	Milk powder	90	Explosion	1
Aluminium grit	100	Explosion	1	Paper tissue dust	52	Explosion	1
Aluminium powder	400	Very Strong Explosion	3	Para formaldehyde	178	Explosion	1
Asphalt	117	Explosion	1	Peat	178	Explosion	1
Barley grain dust	240	Strong Explosion	2	Pectin	162	Explosion	1
Bronze	31	Explosion	1	Phenolic resin	129	Explosion	1
Brown coal	123	Explosion	1	Polyester	85	Explosion	1
Calcium stearate	132	Explosion	1	Polyethylene	134	Explosion	1
Cellulose pulp	62	Explosion	1	Polyurethane	156	Explosion	1
Cellulose	229	Strong Explosion	2	Rice starch	190	Explosion	1
Corn	75	Explosion	1	Silicon	126	Explosion	1
Charcoal	117	Explosion	1	Soap	111	Explosion	1
Cotton	24	Explosion	1	Sodium ascorbate	119	Explosion	1
Dextrin	106	Explosion	1	Sodium stearate	123	Explosion	1
Egg White	38	Explosion	1	Soot	26	Explosion	1
Epoxy powder	125	Explosion	1	Soybean flour	110	Explosion	1
Epoxy resin	129	Explosion	1	Starch, corn	202	Strong Explosion	2
Flour, Bakers 4.3% Moist	112	Explosion	1	Sugar	138	Explosion	1
Lead stearate	152	Explosion	1	Sulphur	151	Explosion	1
Magnesium	508	Very Strong Explosion	3	Tobacco	12	Explosion	1
Malt dust	122	Explosion	1	Toner	145	Explosion	1
Melamine resin	110	Explosion	1	Wood dust	102	Explosion	1
Methyl cellulose	209	Strong Explosion	2	Wood Flour	205	Strong Explosion	2
				Zinc	176	Explosion	1