

Major types of identified presolar dust grains in meteorites and some of their properties

Mineral	abundance [%]	typical size [micrometer]	elements with characteristic isotopic signatures	inferred stellar sources
graphite	~ 0.001	~ 1-10	C, N, O, Mg(Al), Si, K, Ca, Ti, noble gases	novae, supernovae, Red Giants
diamond	~ 0.15	~ 0.0026	N, Sr, Pd, Te, Ba, Pt, noble gases	supernovae
silicon carbide (SiC)	~ 0.003	~ 0.3-20	C, N, Mg(Al), Si, Ca, Ti, Sr, Zr, Mo, Ru, Ba, Nd, Sm, Dy, noble gases	Red Giants (majority); supernovae (type X)
refractory oxides (Al ₂ O ₃ , MgAl ₂ O ₄ , ...)	~ 0.005	~ 0.5-3	O, Mg(Al)	Red Giants, supernovae
silicates	~ 0.02	~ 0.1-1	O, Mg(Al), Si	Red Giants, supernovae
silicon nitride (Si ₃ N ₄)	~ 0.0000002	~ 1	C, N, Mg(Al), Si	supernovae