

MICRO- AND NANO-MINERAL PHASES IDENTIFIED FROM INTERSTELLAR GRAINS IN CHONDRITIC METEORITES (BREARLEY AND JONES 1998; NITTLER 2003; MESSENGER ET AL. 2003; MOSTEFAOUI AND HOPPE 2004; VOLLMER ET AL. 2007)

Name	Formula
Diamond–lonsdaleite (~2 nm)	C
Graphite	C
Moissanite	SiC
Nano-particles of TiC, ZrC, MoC, FeC, and Fe-Ni metal within pre-solar graphite	
Osbornite	TiN
Nierite	Si ₃ N ₄
Rutile	TiO ₂
Corundum	Al ₂ O ₃
Spinel	MgAl ₂ O ₄
Hibonite	CaAl ₁₂ O ₁₉
Perovskite structure	MgSiO ₃
Forsterite	Mg ₂ SiO ₄
GEMS (silicate glass with embedded metal and sulfides)	