

**TABLE 2B.** Primary mineral phases in chondrules of type 3.0 chondrites

Name	Formula
Forsterite	$Mg_2SiO_4$
Clinoenstatite	$MgSiO_3$
Orthopyroxene	$(Mg,Fe)SiO_3$
Pigeonite	$(Mg,Fe,Ca)SiO_3$
Augite	$Ca(Mg,Fe,Al)(Si,Al)_2O_6$
Anorthite	$CaAl_2Si_2O_8$
Spinel	$MgAl_2O_4$
Chromite	$FeCr_2O_4$
Ilmenite	$FeTiO_3$
Kamacite	$\alpha$ -(Fe,Ni) metal
Taenite	$\gamma$ -(Ni,Fe) metal
Troilite	FeS
Pentlandite	$(Ni,Fe)_9S_8$
*Magnetite	$Fe_3O_4$
*Cohenite	$(Fe,Ni)_3C$
*Haxonite	$(Fe,Ni)_{23}C_6$
*Cristobalite/Tridymite	$SiO_2$
*Fayalite	$Fe_2SiO_4$
*Merrihueite/Roedderite	$(K,Na)_2(Fe,Mg)_5Si_{12}O_{30}$
*Pseudobrookite	$Fe_2TiO_5$
†Schreibersite	$(Fe,Ni)_3P$
†Perryite	$(Ni,Fe)_8(Si,P)_3$
†Oldhamite	CaS
†Ninningerite	$(Mg,Fe,Mn)S$
†Daubreelite	$FeCr_2S_4$
†Caswellsilverite	$NaCrS_2$

\* Indicates minor minerals probably formed by solid-state reaction of other phases.

† Indicates minor phases observed in chondrules of enstatite chondrites (Brearley and Jones 1998).

*(continued next page)*