

Appendix

Results of mass loss

Table 2. Dust and wind properties.

model	n_d/n_H	\dot{M} (M_\odot/yr)	f_{Mg}	a_{gr} (μm)
st28gm06n052	$3 \cdot 10^{-16}$	$5 \cdot 10^{-6}$	0.5	0.8
st28gm05n033	$3 \cdot 10^{-15}$	$5 \cdot 10^{-8}$	0.15	0.2

Notes. Listed here are the assumed seed particle abundance n_d/n_H , and the resulting temporal means of the mass-loss rate \dot{M} , the fraction of Mg condensed into grains f_{Mg} , and the grain radius a_{gr} at the outer boundary. When forming Mg_2SiO_4 grains in a gas of solar composition, the abundance of Mg is the limiting factor, since that element will be used up first. In the models described here, however, f_{Mg} is well below its maximum value of 1.