

Table 1: Model parameters and nucleosynthetic yields for selected species at the start of our radiative-transfer calculations (0.5 d past explosion). The ^{56}Ni mass is given at $t \approx 0$.

Model	M_{tot} [M_{\odot}]	$M_{56\text{Ni}}/M_{\text{tot}}$	ρ_{tr} [g cm^{-3}]	E_{kin} [B]	$v(^{56}\text{Ni})$ [km s^{-1}]	$t \approx 0$												$t = 0.5\text{d}$																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
						^{56}Ni [M_{\odot}]	Ni [M_{\odot}]	Co [M_{\odot}]	Fe [M_{\odot}]	Ti [M_{\odot}]	Ca [M_{\odot}]	Si [M_{\odot}]	Mg [M_{\odot}]	O [M_{\odot}]	C [M_{\odot}]	t_B [d]	^{56}Ni [M_{\odot}]	Ni [M_{\odot}]	Co [M_{\odot}]	Fe [M_{\odot}]	Ti [M_{\odot}]	Ca [M_{\odot}]	Si [M_{\odot}]	Mg [M_{\odot}]	O [M_{\odot}]	C [M_{\odot}]	t_B [d]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
DDC25	1.41	0.08	8.0(6)	1.185	8.49(3)	0.119	0.142	9.69(-3)	9.80(-2)	1.13(-4)	2.41(-2)	0.485	3.72(-2)	0.283	2.16(-2)	19.82																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</

Notes: Numbers in parenthesis correspond to powers of ten. The ratio of the deflagration velocity to the local sound speed ahead of the flame is $\alpha = 0.03$ for all models; ρ_{tr} is the transition density at which the deflagration is artificially turned into a detonation; E_{kin} is the asymptotic kinetic energy (units: $1\text{B} \equiv 1\text{Bethe} = 10^{51} \text{ erg}$). $v(^{56}\text{Ni})$ is the velocity of the ejecta shell that bounds 99% of the total ^{56}Ni mass.