Thermonuclear Burning Stages(D. Arnett,"Supernovae and Nucleosynthesis")

fuel	T(10^9 K)	ashes	cooling
^{1}H	0.02	^{4}He, ^{14}N	photons
^{4}He	0.2	^{12}C,^{16}O,^{22}Ne	photons
^{12}C	0.8	^{20}Ne,^{24}Mg,^{16}O, ^{23}Na, $^{25,26}Mg$	neutrinos
^{20}Ne	1.5	^{16}O,^{24}Mg,^{28}Si,...	neutrinos
^{16}O	2	^{28}Si, ^{32}S,...	neutrinos
^{28}Si	3.5	^{56}Ni, A~56 nuclei	neutrinos
^{56}Ni	6~10	n, p, ^{4}He, s,r,p processes	neutrinos
A~56	Depends on density	photodisintegration, neutronization	
Super nova		Heavy elements up to uranium	