

Approximate Melting Temperature of Ceramic, Metallic and Organic Materials

Material	Temperature, °C	Temperature, °F
Polystyrene	65-75	150-170 ^a
Polymethyl methacrylate	60-90	140-200
Na metal	98	208
Polythylene	120	250 ^a
Nylon 6 ^b	135-150	275-300 ^a
Polyimides	260	500 ^a
Teflon	290	550 ^a
B ₂ O ₃	460	860
Al metal	660	1220
NaCl	801	1474
Ni-base superalloy	1300	~2370
Co-base superalloy	1330-1410	2425-2570
Stainless steel (304)	1400-1450	2550-2650
CaF ₂	1423	(2593)
Fused SiO ₂	~1650	3000
Si ₃ N ₄ ^b	~1750-1900	3180-3450
Mullite	1850	3360
Al ₂ O ₃	2050	3720
Spinel	2135	3875
B ₄ C	2425	4220
SiC ^b	2300-2500	4170-4530
BeO	2570	4660
ZrO ₂ (stabilized)	2500-2600	4530-4710
MgO	2620	4750
WC	2775	5030
UO ₂	2800	5070
TiC	3100	5520
ThO ₂	330	5880
W metal	3370	6010
Ca ^a	3500	6240
HfC	3890	6940

^aMaximum temperature for continuous use ^bSublimes or decomposes

Source: *Modern Ceramic Engineering, Second Edition*, D. Richerson, Marcel Dekker, 1992