

## Melting Points Of Some Compounds And Minerals

	Deg. C.	Deg. F.		Deg. C.	Deg. F.
Alumina	2050	3722	Lead oxide (Litharge)	880	1616
Andalusite	1816	3301	Lead oxide (Minimum), dissociates	500-530	932-986
Andalusite (commerical)	1655	3011	Lime	2570	4658
Arsenous oxide	200	392	Limestone	2570	4658
Barium carbonate	1360	2480	Magnesite (dissociates)	2800	5072
Barium chloride	960	1760	Magnesite (commercial)	2000-2800	3632-5072
Barium oxide	(O <sub>2</sub> ) 450	(O <sub>2</sub> ) 842	Magnsium carbonate (dissociates)	350	662
Barium sulfate	1580	2876	Magnesium oxide (approx.)	2825	5117
Bauxite	2035	3695	Magnetite	1538	2800
Bauxite (commercial)	1800-2020	3272-3668	Manganese dioxide	(O <sub>2</sub> ) 1058	(O <sub>2</sub> ) 570
Borax	Red Heat		Mullite	1810	3290
Calcite	2570	4658	Mullite (commercial)	1790	3254
Calcite (commerical)	2095-2485	3803-4505	Nickel oxide	(O <sub>2</sub> ) 400	(O <sub>2</sub> ) 752
Calcium carbonate (dissociates)	825	1517	Orthoclase feldspar (dissociates)	1170	2138
Calcium flouride	1300	2372	Potassium carbonate	880	1616
Calcium oxide	2570	4658	Potassium chromate	975	1787
Calcium sulfate (gypsum) dissociates	900	1652	Potassium dichromate	398	748
Chromium oxide	2330	4226	Potassium nitrate	337	639
Cobaltic oxide	(O <sub>2</sub> ) 905	(O <sub>2</sub> ) 1661	Potassium oxide	Red Heat	
Cobalt nitrate	56	133	Quartz	1715	3119
Copper oxide (Cu <sub>2</sub> O)	1210	2210	Rutile (dissociates)	1900	3452
Copper oxide (CuO)	1064	1947	Rutile (commercial)	1630	2966
Corundum	2035	3695	Silica	1715	3119
Corundum (commercial)	1850-2030	3362-3686	Silicon carbide (decomp.)	2200	3992
Cyanite	1816	3301	Sillimanite	1816	3301
Cyanite (commercial)	1680	3056	Sillimanite (commercial)	1810	3290
Diaspore	2035	3695	Sodium carbonate	853	1567
Diaspore (commercial)	1920	3488	Sodium nitrate	313	595
Diatomaceous earth	1715	3119	Sodium chloride	792	1458
Diatomaceous earth (commercial)	1650	3002	Sodium oxide	Red Heat	
Dolomite	2570-2800	4658-5072	Sodium sulfate	880	1616
Dolomite (commercial)	1925-2485	3497-4505	Spinel	2135	3875
Ferric oxide	1548	2818	Spinel (commercial)	1915	3479
Ferrous oxide	1419	2586	Tin oxide	1130	2066
Fireclay (high grade)	1660-1720	3020-3128	Titanium oxide (dissociates)	1900	3452
Fireclay (low grade)	1600-1650	2912-3002	Whiting (dissociates)	825	1517
Flint	1715	3119	Zircon (dissociates)	2550	4622
Fluorspar	1300	2372	Zircon (commercial)	1900-2300	3452-4172
Forsterite	1910	3470	Zirconia	2700	4892
Ganister	1715	3119	Melting Points for Some Glass-Forming Silicates		
Gibbsite	2035	3695		Deg. C.	Deg. F.
Gibbsite (commerical)	1760-2030	3200-3686	Na <sub>2</sub> SiO <sub>3</sub>	1089	1992
Halloysite	1775	3227	K <sub>2</sub> SiO <sub>3</sub>	976	1789
Kaolin	1740-1785	3164-3245	PbSiO <sub>3</sub>	770	1418
Kaolinite	1785	3245	BaSi <sub>2</sub> O <sub>3</sub>	1426	2599
Kyanite	1820	3308	Beta CaSiO <sub>3</sub>	1540	2804

Source: *Firing Ceramics*, G. Bickley Remmey Jr. World Scientific.