











IGNEOUS COMPOSITIONAL NAMES AND MAGMA TYPES

SiO ₂ (wt. %)	<45	45 -52	52 - 57	57 - 63	63 - 68	>68
Compositional or Chemical Equivalent	ultrabasic	basic	basic to intermediate	intermediate	intermediate to acidic or silicic	acidic or silicic
Magma Type	ultramafic	mafic	mafic to intermediate	intermediate	intermediate to felsic	felsic
Extrusive Rock Name	komatiite	basalt	basaltic andesite	andesite	dacite	rhyolite
Intrusive Rock Name	peridotite	gabbro	diorite	diorite or quartz diorite	granodiorite	granite
Liquidus Temperature	 DECREASES 					
Mafic Mineral Content	 DECREASES 					
Water Content	 INCREASES 					
Mg/Fe	 DECREASES 					
Ca/Na or Ca/K	 DECREASES 					

NOTES

1. Magma type refers to *colour of extrusive rocks (light to dark) with increasing SiO₂ %*.
2. The terms acidic and basic, when used in this context, have **NOTHING** to do with pH.
3. This table does NOT contain all possible igneous rock types; it is a general guide to help you equate SiO₂% with common rock names.