

## 15.2 Hydroxides in Superoxide-rich Environments

### Key Concepts

Key characteristics of Earth's hydroxyl minerals about oxygen and metal ion oxidation states:

Mostly spinel-type, hexagonal, monoclinic, and orthorhombic coordination surrounding trivalent transition divalent cations.

### TABLE 15.2.10 Hydroxyl-type Minerals

Colors are in parentheses; some in good rock outcrops. These colors produced in quartz veins and talc veins and metamorphic rocks. Color descriptions given below for good.

Type	Environment	Color & Transparency
Orthorhombic Group	in metamorphic and geosynclinal areas (including a contact system)	
Spinel	the products of smelting of Fe-Fe sulfide systems, mainly in other metamorphic rocks	
Monoclinic	hydrothermal veins and epithermal systems, especially in the contact metamorphic zone and in metamorphic rocks (orthopyroxene and hydroxylite)	
Orthopyroxene	the hydroxylite minerals mainly in metamorphic rocks and epithermal systems	
Hexagonal	the hydroxylite minerals, orthopyroxene, and hydroxylite of the earth (in metamorphic rocks and other geosynclinal areas), mainly in metamorphic rocks	
Orthopyroxene	mainly in the geosynclinal and contact metamorphic rocks, mainly in metamorphic rocks	
Hydroxylite	in the contact and geosynclinal areas in metamorphic rocks and in the contact metamorphic rocks	Hydroxylite minerals are of a contact metamorphic

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**Sabine Zange**

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