

by the basalt, the confusion was thereby increased.

He does not, however, pretend it is always crystallized; for, he distinguishes four sorts, the last of which only is, he says, crystallized.

1st, *The amorphous martial shorl, or skorlberg*; this, Wallerius tells us, is his own 148th species, of a green or yellowish green colour; its sp. gr. 3,200, difficultly, if at all, giving fire with steel. This is what is now called the Gemeiner, or Common Actinolite, of Werner, as far as this takes in the amorphous sort only.

2d, *The shorl spar* of a green, and sometimes of a white colour; this is the *basaltes spatiosus* of Wallerius, and probably denotes the green foliated hornblende and shorlite.

3d, *The fibrous, or strahl shorl*; black, green, and white; the *basaltes fibrosus* of Wallerius, which is the crystallized common actinolite of Werner.

4th, *The shorl crystal*, which he translates *basaltes crystallifatus*, of which he distinguishes three colours, the black, green, and reddish brown; as does Wallerius, who, deceived by the name, comprehends also the pillars of the Giants Causeway under this species. The black, however, is the real shorl; the other colours probably comprehend actinolites and tourmalines.

Mr. Bergman also distinguishes three sorts of shorl, the *fibrous*, which he mentions in his treatise on asbestos, the crystallized, and the scaly; this last he also calls hornblende*; but the first melts, *per se*, into a grey porcelain mass, and

* 2 Bergm. 107.

therefore