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Promethean Particles

BioCity

Pennyfoot Street

Nottingham

NG1 1GF

**Composition**

CdS  
 Co<sub>3</sub>O<sub>4</sub>  
 Fe<sub>2</sub>O<sub>3</sub>  
 Fe<sub>3</sub>O<sub>4</sub>  
 Ca<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>(OH)  
 La(OH)<sub>3</sub>  
 La(OH)<sub>3</sub>  
 La(OH)<sub>3</sub>  
 Ag  
 ZrO<sub>2</sub>  
 ZrO<sub>2</sub> + Ce  
 ZrO<sub>2</sub> + Eu  
 ZrO<sub>2</sub> + Tb  
 CeO<sub>2</sub> + ZrO<sub>2</sub>  
 Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>  
 YAlO<sub>3</sub>  
 InO  
 La<sub>2</sub>O<sub>3</sub>  
 Fe<sub>x</sub>Ni<sub>3-x</sub>O<sub>3</sub>

**Name**

cadmium sulphide  
 cobalt oxide  
 hematite  
 magnetite  
 hydroxyapatite  
 lanthanum hydroxide  
 lanthanum hydroxide  
 lanthanum hydroxide  
 silver  
 zirconia  
 zirconia + cerium  
 zirconia + europium  
 zirconia + terbium  
 ceria zirconia mixture  
 YAG  
 YAP  
 indium oxide  
 lanthanum oxide  
 iron nickel mixed metal

**Morphology**

spherical  
 cuboidal  
 spherical  
 spherical  
 rods/cubes  
 rods, hairs, particles  
 bimodal; spherical + rods  
 spherical  
 spherical  
 spherical  
 spherical  
 spherical  
 spherical  
 spherical  
 spherical  
 spherical  
 spherical  
 spherical  
 spherical  
 spherical  
 triangular platelets  
 spherical

**Size / nm**

20-40  
 5-20  
 5-50  
 10-40  
 1-8 aspect ratio  
 30 (width)  
 <10 and 100  
 10-20  
 5-50  
 2-10  
 2-10  
 2-10  
 2-10  
 5  
 100-200  
 50-200  
 10-50  
 300  
 <50