

Hydroxy Apatite

Hydroxy Apatite (GS HAP Series) is the basic calcium phosphate ($\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$) and known as the main component for bone and teeth in nature. They also exist as mineral mine and have high compatibility with human body and other animals. Hydroxy Apatite has been applied to column adsorption chromatography for separation and purifying proteins. In addition, they have high compatibility with bone, amino acids, proteins, lipids, sugar. They also show ion exchanging properties and basically safe to human body and animals.

GS BIO HAP series particle size 0.5 - 20 μm powder

We are also developing printable ink or paint using GS HAP series based on water, or any type of organic solvent.

For example, below table indicates the basic property of paint or ink slurry.

GS BIO ASL HAP Series	5.0 – 35.0 %
Resins and Additive	0.8 – 12.0 %
Water or Organic Solvent (Terpineol, NMP, MIBK, Toluene, BCA etc...)	50.0 - 80.0 %
Viscosity	4.0 – 300000 mPa·s/ 25 °C (Viscosity can be modified for customer's request for their printing method)
Particle size of HAP	60.0 nm – 300.0 nm

Organic solvent can be IPA (iso propyl alcohol), MEK (n-methyl pyrrolidone), NMP (N- Methyl pyrrolidone) etc.....or water, as customer request. We can also modify the particle size, concentration of other additives such resin or dispersing chemical etc... We will prepare suitable ink using appropriate resin and chemicals in order to have strong adhesion towards substrate such as PET, PP, PE film, glass, metal, or ceramic substrate, as customer requests.

We will be glad to discuss with your detail technical request anytime.

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