

Precious Metal Powder

Au 200 - 30

Gold Nano Suspension

Description

Au 200-30 is a very stable aqueous suspension of high purity of gold particles. The Au content is up to 25 wt. % possible. Au 200-30 is dilutable with deionised water.

Depending on the kind of surface which is to be coated, a highly reflective bright golden or red color can be achieved.

The material can be applied by brushing, spraying, dipping, coating or with inkjet on various materials.

Thermal treatment is recommended for increasing the mechanical stability such as the adhesion of applied layers.

Typical processing steps

1. Applying on a surface (e.g. glass and ceramic substrates or glass and ceramic powders) by dipping, spraying or brushing.
2. Drying up to 150° C.
3. Thermal treatment > 450° C. Temperature is depending on the kind of application.

Typical Properties

Particle Size Distribution ¹ :	1 - 6 nm
Suspension Color:	Dark red
Consistence:	Aqueous
Precious Metal Content:	Up to 25 wt. %
Metal Purity:	> 99.9 wt. %



Au 200-30
0.1 wt. %
Suspension



Au 200-30
8.0 wt. %
Suspension

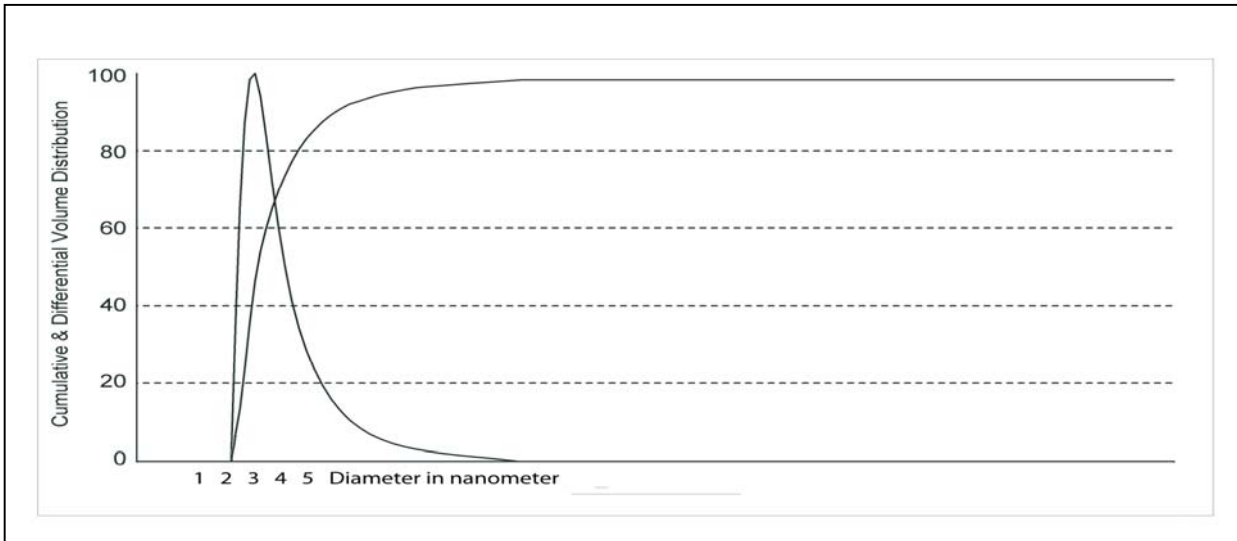
¹ Measured with XDC (x-ray centrifuge)

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Typical Particle Size Distribution



The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for a particular application.

Europe [TH]
Heraeus Precious Metals GmbH & Co. KG
Thick Film Materials Division
Heraeusstr. 12 - 14
63450 Hanau
Germany
Tel: +49 (6181) 35 - 5466
E-Mail: th-info@heraeus.com
Internet: www.heraeus-thickfilm.com

North America
Heraeus Materials Technology LLC
Thick Film Materials Division
24 Union Hill Road
W. Conshohocken, PA 19428
USA
Tel: +1 (610) 825 - 6050
E-Mail: techservice.hcd@heraeus.com
Internet: www.heraeus-thickfilm.com

Asia [TH]
Heraeus Materials Technology Shanghai Ltd.
No. 1 Guang Zhong Road
Zhuangqiao Town, Minhang District
201108 Shanghai
People's Republic of China
Tel: +86 (21) 3357 - 5688
E-Mail: th.hmts@heraeus.com
Internet: www.heraeus-thickfilm.com