



TECHNICAL DATA SHEET

Orgasol[®] 3502 D NAT 1



MAIN APPLICATIONS

Metal powder compounds, Powder Injection Molding, Metal Injection Molding, Ceramic Injection Molding, Coatings

ORGASOL[®] 3502 D NAT 1 is a **spheroidal powder** of copolyamide 6/12, with **20 µm** as average diameter and a narrow particle size distribution. An extremely high level of quality is achieved thanks to our rigorous control of particle size distribution, providing **excellent consistency in performance**.

ORGASOL[®] 3502 D NAT 1 consists of **porous particles**. The Lactame 6/Lactame 12 ratio is adjusted to reach **Melting Temperature around 142°C**.

The **hydrophilicity of Lactame 6** facilitates the dispersion of ORGASOL[®] 3502 D NAT 1 in water based formulations.

ORGASOL[®] 3502 D NAT 1 is used as a multifunctional additive in coatings. It improves the **scratch and the abrasion resistance while providing a satin non-slippery finish**.

For Powder Injection Technology, ORGASOL[®] 3502 D NAT 1 is a key polymer offering a wide range of properties to improve the end products performance. It plays the role of a **solid lubricant**. Combined with the other components of the molding feedstocks, it imparts **high strength into the moulded green** parts in order to avoid damage of the parts on ejection of the mould.

CHARACTERISTICS

		METHOD
Appearance:	White spheroidal powder	Visual
Average diameter:	20 microns	ISO 13319
Particle size distribution:		
Fine particles < 10 microns	5 max. %	ISO 13319
Coarse particles > 30 microns	5 max. %	ISO 13319
Average Specific Surface Area:	6 m ² /g	ISO 9277
Apparent density unpacked:	0.375 g/cm ³	ISO 1068
Melting point:	142 °C	ISO 11357-3

PACKAGING

15 Kg multilayers bags

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