

TECHNICAL DATA SHEET

CONCENTRATE FOR THERMOPLASTIC

TUBALL™ MATRIX 822 is a versatile conductive additive based on polyol ester carrier to produce masterbatches based on PP, TPU, filled PPS, ABS, PC, PC-ABS, PA, GF PA. Resulting masterbatches can be used for compounding in filled polymers or in combination with other conductive fillers to reduce their content and gain better mechanics/fluidity. TUBALL™ MATRIX 822 is available in pellet form.

TUBALL™ is a unique graphene nanotube additive from OCSiAl that provides electrical conductivity at ultralow dosage with minimal impact on the rheological and mechanical properties of the host matrix.

APPLICATIONS

- Extrusion of conductive masterbatches based on thermoplastics;
- Automotive industry;
- Other applications where electrical conductivity is required.

BENEFITS

- TUBALL™ MATRIX 822 used as a carrier for masterbatches;
- Minimal influence on mechanical properties;
- Ensures permanent and uniform electrical properties without “hot spots”;
- Without a significant increase in viscosity or density of the host material.

PROPERTIES

CONCENTRATE CARRIER		FATTY ACID, ESTER OF POLYOL
PROPERTY	TEST METHOD	VALUE
Density, 23°C	ISO 1183	1.07 g/cm ₃
Bulk density	ISO 3923-1:2018	0.46 g/cm ₃
Melting temperature, 10K/min	ISO 11357-1	40 °C
Flash point	ISO 2592	>270 °C

TUBALL™ MATRIX 822 may contain metal particles up to 500 µm in size; the mass concentration of such inclusions does not exceed 0.04%.

PACKAGING

OCSiAl provides TUBALL™ MATRIX 822 samples in plastic containers (50 g concentrate). Industrial volumes are available in different packaging up to 50 kg.

STORAGE AND TRANSPORTATION

The product is stable in unopened original packaging when stored in a dry, cool and well-ventilated place. The recommended storage life is up to 24 months when stored as directed.

SAFETY

To ensure safe handling, the appropriate safety regulations should be observed. OCSiAl recommends that every user should be able to apply the safe handling procedures necessary for the user's applications before any handling or manufacturing takes place. A Safety Data Sheet outlining the hazards and handling methods for TUBALL™ MATRIX 822 is available.

WARRANTIES AND DISCLAIMER

The Products correspond to the chemical composition indicated in the Technical Data Sheet and the Safety Data Sheet supplied with the Product. The information contained in this document (Information) is based on trials carried out by OCSiAl and may contain inaccuracies or errors that could cause injury, loss or damage.

OCSiAl gives no further warranty and makes no further representation regarding the Products and/or the accuracy of Information and/or suggestions for any particular use of the Products or Information, or that suggested use will not infringe any patent. The Products and Information are supplied on an "as is" basis. These express provisions are in place for all warranties, representations, conditions, terms, undertakings and obligations implied by statute, common law, custom, trade usage, course of dealing or otherwise (including implied undertakings of satisfactory quality, conformity with description, fitness for purpose and reasonable skill and care), all of which are hereby excluded to the maximum extent permitted by applicable law.

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