

PRELIMINARY PRODUCT INFORMATION

TYPE

Aqueous aliphatic polyurethane dispersion, polycarbonate based

FORM OF DELIVERY (f.o.d.)

30 % in water (30WA)
(also containing 4.2 % Dipropylglycol-dimethylether and 1 % Methoxypropanol)

DEVELOPMENT PRODUCT

This product is serving for trial purposes only. Deviations which might occur during transfer into manufacturing in a commercial scale are possible and do not constitute any material defect.

Neutralization agent

approx. 1 % N,N-dimethylethanolamine, as salt

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	max. 60
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Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g)	[%]	29 - 31
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Not continually determined:

pH-Value DIN ISO 976

pH-value (10 %)		7,2 - 8,9
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Colour / Appearance VLN 250

colour		whitish
appearance		cloudy

Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm ³]	1,04
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Flash Point (CCCFP) ASTM D 6450

flash point	[°C]	> 95
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SPECIAL PROPERTIES AND USE

Daotan TW 6452/30WA is recommended as the NMP / NEP- free alternative for Daotan (V)TW 1236. Alike latter Daotan TW 6452 is a polycarbonate-based, high molecular weight Polyurethanedispersion. Dried at ambient temperature Daotan TW 6452 is providing clear, crack- free films without further addition of organic solvents or additives. These films exhibit excellent elasticity and mechanical properties as well as very good adhesion to different plastic substrates like e.g. ABS, PC, ABS/PC, PA, PVC, PC/PBT, ...

Accordingly Daotan TW 6452 is recommended for waterborne plastic primer and plastic basecoats as well as auto OEM basecoats with highest requirements on optical appearance ("Flop), water resistance as well as mechanical properties.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 365 days.

It is important to protect Daotan TW 6452/30WA from frost; at low temperatures it has therefore to be stored under frostproof conditions.

Lowest storage temperature: 5 °C

DISTINGUISHING FEATURES

Compared to Datoan TW 6450, Daotan TW 6452/30WA shows notably improved optical appearance ("Flop") in metallic basecoats.

REMARK:

Data contained in this publication are based on careful investigations (and are intended for information only). Due to scale up of this product there is not yet sufficient experience concerning serial production. We can therefore not exclude, that based on future knowledge product data and other indicated properties in upcoming Technical Data Sheets will be subject to change. We reserve the right to leave the product name unchanged, even if product data or other indicated properties will vary from the present product info. Regardless of the data contained in this publication any user is obliged to carry out tests under his own responsibility as to the suitability of the product for a particular use and to investigate the possible violation of industrial property rights of third parties. Information is therefore not binding and cannot be construed as guaranteeing specific properties of products. We apply our General Sales Conditions.