



T E C H N I C A L   D A T A   S H E E T

# ENNELOX TP

**MAIN USE :** These products are "surface" and "depth" anti-oxidising additives, intended for the formulation of "offset fresh inks" (Sheet Fed Inks).

- ✚ **For ink manufacturers:** prevent skin formation during the manufacturing process, especially between two operations like premixing & milling.
- ✚ **For the printers:** prevent the ink from drying on the rollers/blanket, during printing or after stopping the machine.

**CHARACTERISTICS** (ENNELOX TP are only available with Vegetable vehicle)

Name of product	% of active product	Physical form	Colour	Odour	Viscosity
ENNELOX TP 25 V	24,7	Paste / Compound	Off white / pale beige	Very weak	120/150 p
ENNELOX TP 30 V	30	Paste / Compound	Off white / pale beige	Very weak	135/185 p
ENNELOX TP 33 V	33	Paste / Compound	Off white / pale beige	Very weak	135/185 p
ENNELOX TP 36 V	39	Paste / Compound	Off white / pale beige	Very weak	140/190 p
ENNELOX TP 41 V	41	Paste / Compound	Off white / pale beige	Very weak	140/190 p
ENNELOX TP 50 V	49	Paste / Compound	Off white / pale beige	Very weak	140/190 p

## PROPERTIES.

This new generation of antioxidant compounds has been developed in order to offer to ink manufacturers:

- ✚ Another technical alternative to HQ\* compounds, when users do not want or can not use HQ.
- ✚ High efficiency similar to the most powerful products usually used (i. e. hydroquinone).

In addition, the TPV pastes are compounded in an offset vehicle in order to obtain:

- ✚ Excellent compatibility with the ink formulation, allows good storage stability.
- ✚ Very good lithographic properties, i. e. "water take-up", in order to maintain good press stability.
- ✚ A very low percentage is needed: that permits to keep the original properties of the ink\*\*.
- ✚ The high active ingredient concentration allows the use of very small amounts which reduce the formulation cost.
- ✚ ENNELOX TP are completely miscible with oil inks as well as mineral and vegetable oils.
- ✚ As ENNELOX TP pastes are able to be diluted in printing ink distillates, it is easy to reduce viscosity if needed.

**NOTES:** \* HQ : Hydroquinone \*\* Due their "limited efficiency", many other NON-HAZARDOUS Antioxidant require a high dosage between 2 to 3 %, which make them difficult to use.

## PERCENTAGE RECOMMENDATION.

Due to the very large number of possible ink formulations which exist and also to the degree of protection required, the following proportions should be considered only as an initial guide:

<b>TP 25 V :</b> 0,4 to 1 %	<b>TP 30 V :</b> 0,4 to 0,8%	<b>TP 33 V :</b> 0,3 to 0,8 %	<b>TP 35 V :</b> 0,3 to 0,8 %	<b>TP 36 V :</b> 0,3 to 0,7%	<b>TP 41 V :</b> 0,25 to 0,7%	<b>TP 50 V :</b> 0,25 to 0,6%
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## STORAGE AND PACKAGING.

- ✚ **Storage:** at room T° without humidity.
- ✚ **Shelf life:** 6 months
- ✚ **Available packaging:** 25 kg pails, 200 kg drums, tailor made upon request.

## OBSERVATIONS & USE.

1. Since ENNELOX TP pastes influence drying times, it is important to avoid "overdoses".
2. As pigments also affect drying times, it is preferable to carry out tests on each colour.
3. When possible ENNELOX TP pastes should be introduced during the last grinding stage.
4. **Always mix very well before any use because they are very concentrate products.**

**IMPORTANT :** the information contained in this data sheet is believed to be accurate, but it should not be taken as a guarantee.

**Reference / Reference :** ENX-TPV 2009 – 0617

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