Specialty Plasticizer

Oxofine[™] TOTM

Flexible solutions for your business



Quality Monomeric







Product Characteristics

Oxofine[™] TOTM is produced using our high high quality 2-EH and trimellitic anhydride. It is manufactured according to a proven technology which guarantees its highest quality and production stability. Oxofine[™] TOTM can be used as primary or functional plasticizer in combination with other plasticizers. It has a positive effect on finished product properties and its manufacturing process.

Application tests

Our products undergo thorough application tests in our advanced and fully equipped **Laboratory of Research and Innovation Department**, in which we test plasticizer performance in polymer processing.

2EH + TMA = Oxofine[™] TOTM

Oxofine™ TOTM:

- Low migration and volatility
- Enhanced resistance to extraction
- High temperature resistance
- Compatibile with Oxoviflex[™] and other plasticizers



Applications

Oxofine[™] TOTM is primarily recommended for applications benefiting from its high-quality feautures and technical performance, such as:







wires & cables

automotive



medical devices

Migration

Oxofine[™] TOTM has extremelylow migration, thus it enhances durability and usability of the finshed product. Products manufactured with Oxofine[™] TOTM maintain their working parameters over extensive period time. This feature distinguishes Oxofine[™] TOTM from other monometric plasticizers.







Comparison of migration



Chemical resistance

Oxofine™ TOTM has high resistance to chemical substances compared to other monometric plasticizers and other marketably available TOTMs.











Oxofine™ TOTM compared to other monomeric plasticizers



Thermal stability

Oxofine[™] TOTM provides high temperature resistance. It is is a runner-up to Oxoviflex[™] - the most thermally stable plasticizer on the market.

High thermal stability translates to superior temperature resistance in PVC processing and finished product's working environment.



Specification

Physical and chemical proprieties

ltem	Parameter		Value	Unit	Test method	Foreign equivalent
1	Colour	max.	100	[Pt-Co]	PN-C-04534-01:1981 PN-EN ISO 6271:2016- 01	ISO 2211 EN ISO 6271
2	Flash point	min.	240	[°C]	PN-EN ISO 2592:2017- 10	ISO 2592
3	Water	max.	0.1	[% m/m]	PN ISO 760:2001 PN-EN ISO 12937:2005	ISO 760 EN ISO 12937
4	Tris(2-ethylhexyl) trimellitate content	min.	96.0	[%]	Internal method of Grupa Azoty ZAK S.A. (GC, % by area)	GC (% by area)
5	Density in 20°C	min. max.	0.985 0.990	[g/cm³]	PN-EN ISO 12185:2002	ISO 12185
6	Acid value	max.	0.5	[mg KOH/g]	PN-C-89401:1988 ASTM D1045-14	ASTM D1045-14
7	Volatile organic compounds (VOC)	max.	0.2	[% m/m]	PN-EN ISO 11890- 2:2020-12	ISO 11890-2:2020

Regulatory information

Oxofine[™] TOTM has been registered in accordance with Regulation (EC) No. 1907/2006 (REACH). It is not subject to authorization, legal

Commercial name:	Oxofine™ TOTM	
Chemical name:	Tris(2-ethylhexyl	
CN:	2917 39 95	
CAS:	3319-31-1	
Polish Classification of Goods	20.14.34.0	
and Services (PCGS):		
Structural formula:		





and application restrictions. Due to its safe profile, it does not have the CLP classification.

M yl) benzene-1,2,4-tricarboxylate





Sales and logistics:

Grupa Azoty ZAK S.A.

We operate globally

IN-TIME deliveries in:

- IBC's
- drums
- road tankers
- ISO tanks
- flexitanks
- rail tankers

Proven logistics:

- land
- maritime
- intermodal

Customer support and product development

We provide technical and application support for all our plasticizers. We have well-qualified technical staff and the **Laboratory of Research and Innovation Department** equipped in the top quality and technically advanced equipped with the top, in which we conduct:

- Processing tests for:
 - DRY BLENDS processing parameters
 - Moulding parameters
- Laboratory tests:
 - Plasticization time
 - Shore Hardness
 - Strength parameters (tensile strength, elongation at break)
 - Thermal stability
 - Migration
 - Chemical resistance
 - GMC analysis
- Developing optimum processing formulations for industrial applications





We have also launched a semi-scale plasticizer (ester) production plant, on which our experienced technology engineers develop products with specific properties tailored to the individual needs and optimise the production technology.

The semi-scale enables production and synthesis of plasticizers and esters with specific properties in the tank and ion-exchange reactors.

In addition, we can conduct following processes:

- neutralization
- washing
- rectification
- drying with steam and nitrogen under reduced pressure.

We also cooperate with the scientific and research institutions, knowledge and experience of which supports our in-house competences and promotes development.



Contact

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