Specialty Plasticizer

Oxofine™ TOTM

Flexible solutions
for your business

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Phthalate Free

Quality Monomeric

EU 10/2011 Compliant

Grupa Azoty

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.

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:

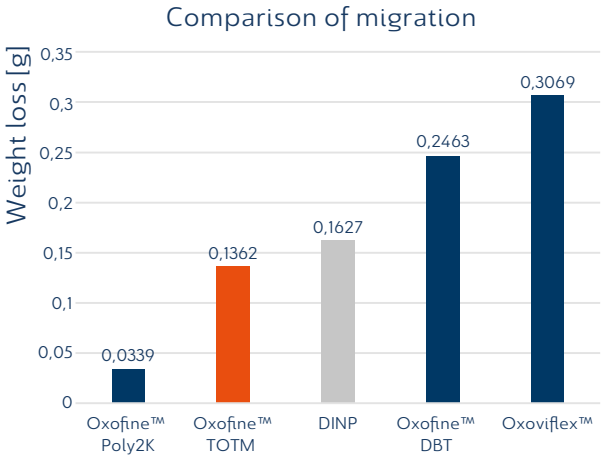
wires & cables

automotive

medical devices

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.

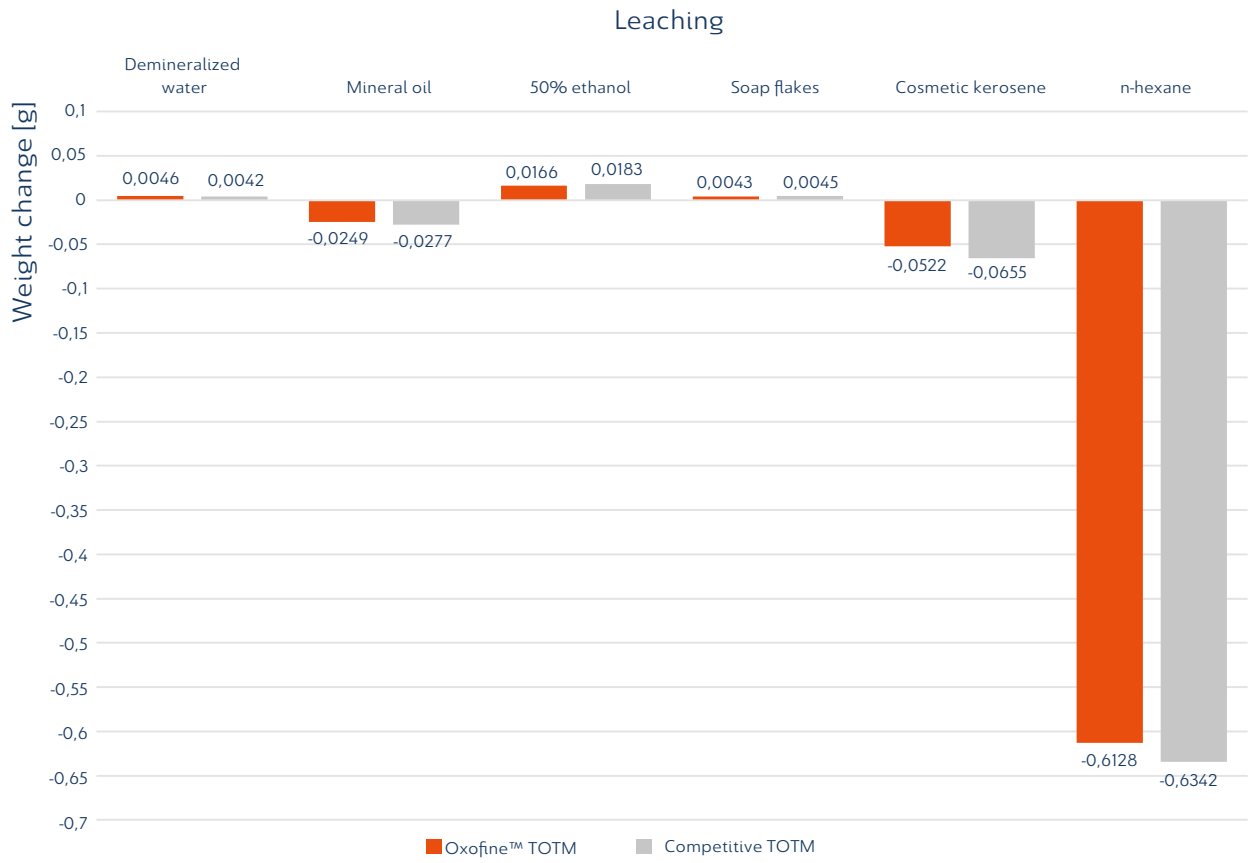


Migration

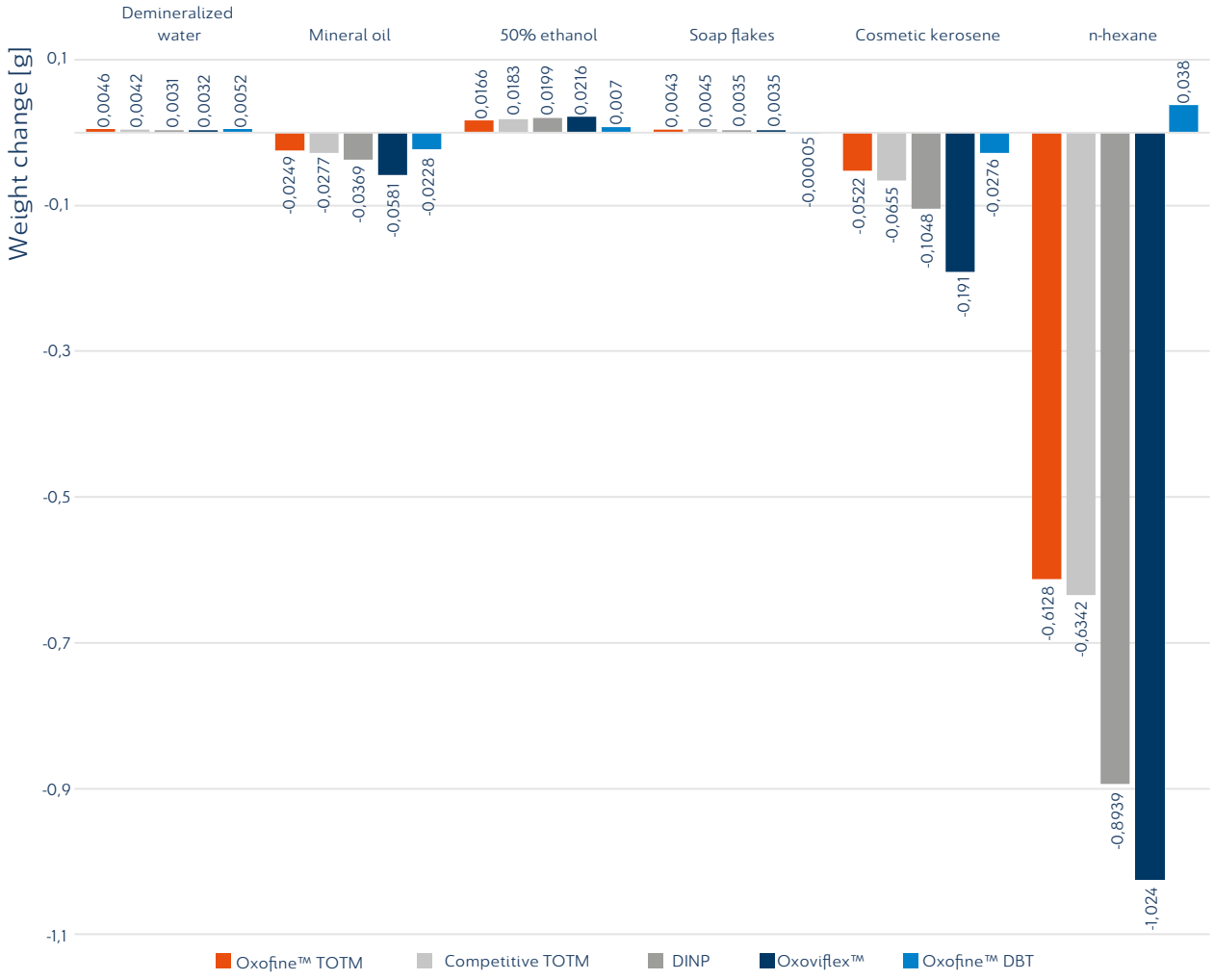
Oxofine™ TOTM has extremelylow migration, thus it enhances durability and usability of the finshed product. Products manufactured with Oxofine™ TOTM maintain their working parameters over extensive period time. This feature distinguishes Oxofine™ TOTM from other monometric plasticizers.

Chemical resistance

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



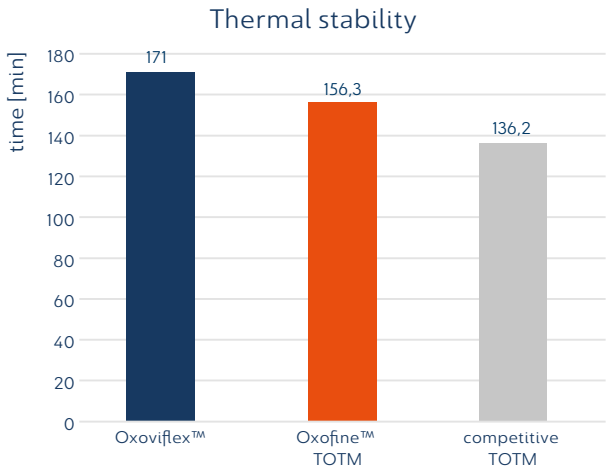
Leaching
Oxofine™ TOTM compared to other monomeric plasticizers



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.



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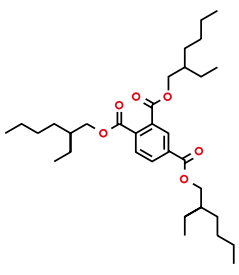
Specification

Physical and chemical proprieties

Item	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/cm^3]	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 and application restrictions. Due to its safe profile, it does not have the CLP classification.

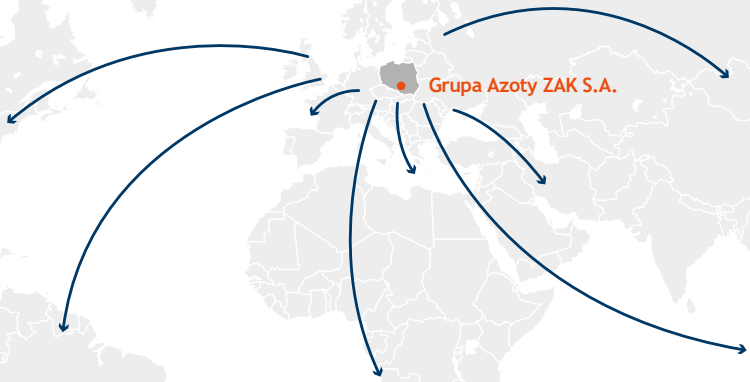
Commercial name:	Oxofine™ TOTM
Chemical name:	Tris(2-ethylhexyl) benzene-1,2,4-tricarboxylate
CN:	2917 39 95
CAS:	3319-31-1
Polish Classification of Goods and Services (PCGS):	20.14.34.0
Structural formula:	

Sales and logistics:

We operate globally

IN-TIME deliveries in:

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



Proven logistics:

- land
- maritime
- intermodal

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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.

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