

# NX CONSER™ C5+

Driving innovation  
in TMA technology

## About NEXTCHEM

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NEXTCHEM is MAIRE's company dedicated to Sustainable Technology Solutions. Leveraging our deep expertise in nitrogen, hydrogen, carbon capture, fuels, chemicals, and polymers, we deliver groundbreaking solutions and processes that fully enable the energy transition.

Building on the rich legacy of our group for over 70 years, we are dedicated to developing and offering technology solutions, processes, basic engineering designs, as well as proprietary equipment and catalysts, to drive global decarbonization efforts forward.

## Half a century of excellence in our DNA

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Benefiting from over 50 years of research and two decades of global commercial production, NX CONSER technology, enhanced in collaboration with our industrial and academic partners, stands as a testament to excellence.

NX CONSER has a complete experience in the development of TMA (Trimellitic Anhydride) technology and the execution of basic design of TMA plants.

## Our solution to premium plasticizer production

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NX CONSER Plasticizers Technology can deliver high product quality meeting the specifications of the leading producers (high standard of color and no need of discoloration).

NX CONSER can offer technology of production of Isophthalic Acid either based on low-temperature oxidation reaction (activated by aldehyde) or on high-temperature oxidation reaction (activated by bromine).

## NX CONSER™ C5+

High-quality output with  
advanced isophthalic acid  
synthesis methods

### Applications

Plasticizers enhance PVC and play versatile roles in organic synthesis, coatings, adhesives, and surfactants

TMA is pivotal in producing esters for PVC and coatings, while Isophthalic acid is a key component in PET for drink bottles and high-quality resins

### Your benefits

- 1 Based on batch reaction, operated at variable operating pressure and temperature
- 2 Highest standards of safety and reliability, with use of advanced and reliable materials of construction
- 3 Waste disposal minimization and catalyst recovery and recycle, ensuring lowest environmental impact
- 4 Saving in power, steam and utilities consumption

# Technical overview

**a**

Many different plasticizers (phthalates and non-phthalates) can be produced with the same plant equipment, starting from different anhydrides/acids/alcohols and ensuring high flexibility.

**b**

Most of the plant operated in continuous, while oxidation and crystallization operated in batch and monitored by a sophisticated computer system to minimize misoperations and increase productivity and quality (high constant TMA quality).

