



TotalEnergies

Committed to Better Energy

Shemon Jones

Technical Support & Product Development Specialist

TotalEnergies – Getting to Net Zero by 2050



OUR PURPOSE
 To provide as many people as possible with energy that is more reliable, more affordable, and cleaner

OUR AMBITION
 To be a major player in the energy transition, on the road to Net Zero by 2050, together with society

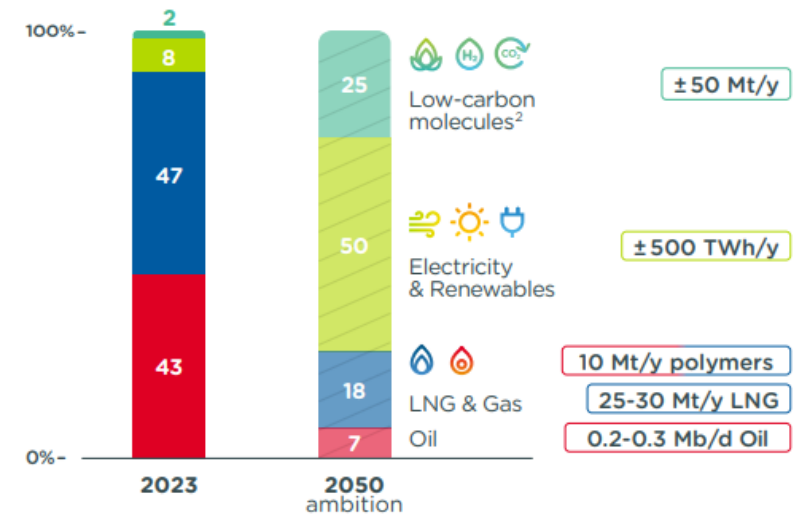
OUR APPROACH

- CLIMATE AND SUSTAINABLE ENERGY
- CARING FOR THE ENVIRONMENT
- ACTING FOR THE WELL-BEING OF EMPLOYEES
- POSITIVE IMPACT FOR STAKEHOLDERS

Sustainab'ALL
 10 KPIs COVERING THE PERIOD 2023-2025 IN SUPPORT OF OUR TRANSITION

VISION OF TOTALENERGIES SALES IN 2050

TotalEnergies' sales mix



TotalEnergies – Special Fluids – A GLOBAL PLAYER

Diversified logistics facilities

Proximity to customers all over the world

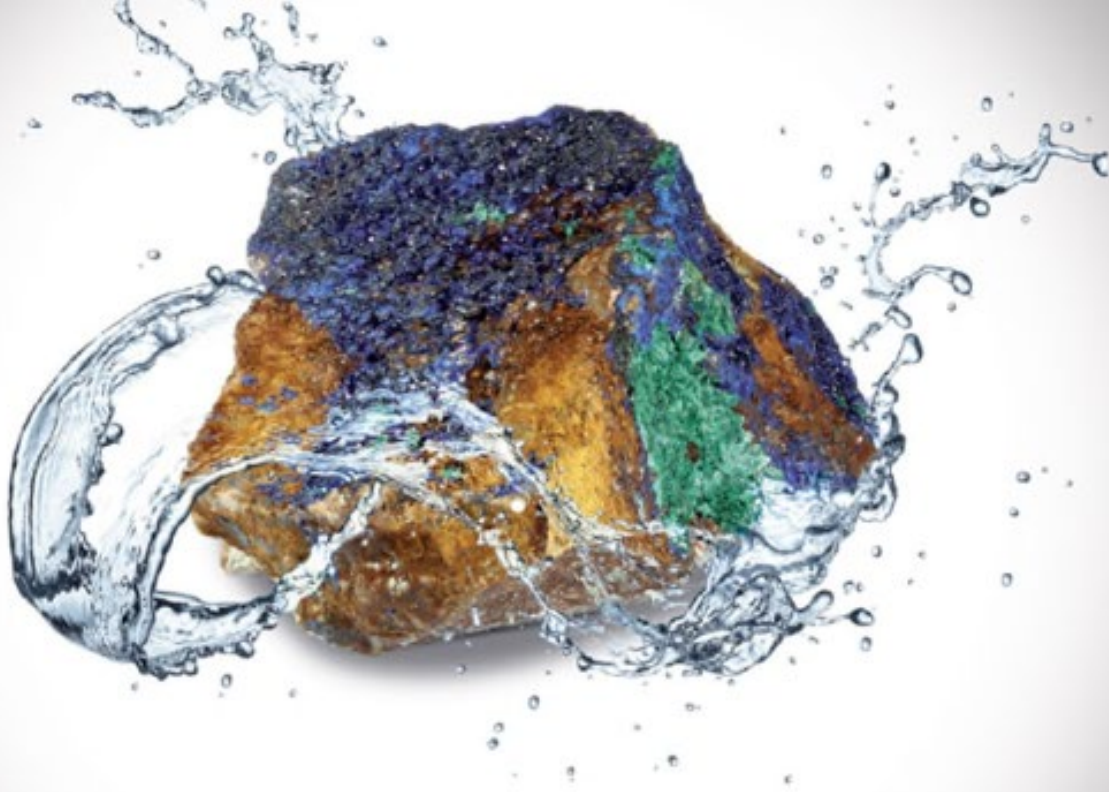
Deliveries all over the world:

- Local affiliates are close to our customers to organize deliveries
- Supply of bulk by truck, isotanks, trains, and vessels
- Supply of packed products by drums or IBC

Time to market:

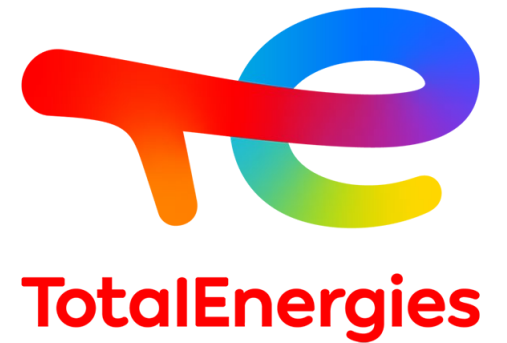
- Existing products with existing specifications: readily available
- Adapted offer: will depend on modification(s)





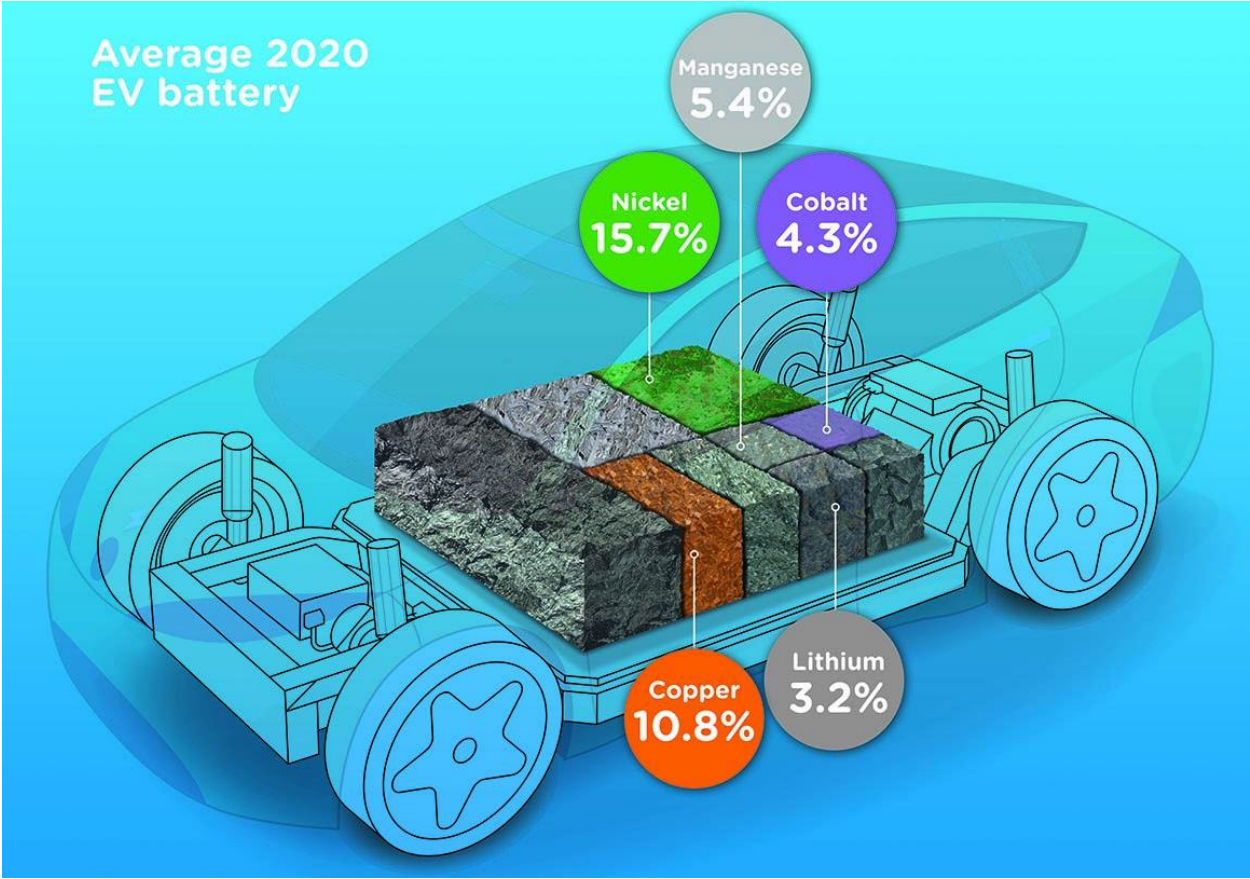
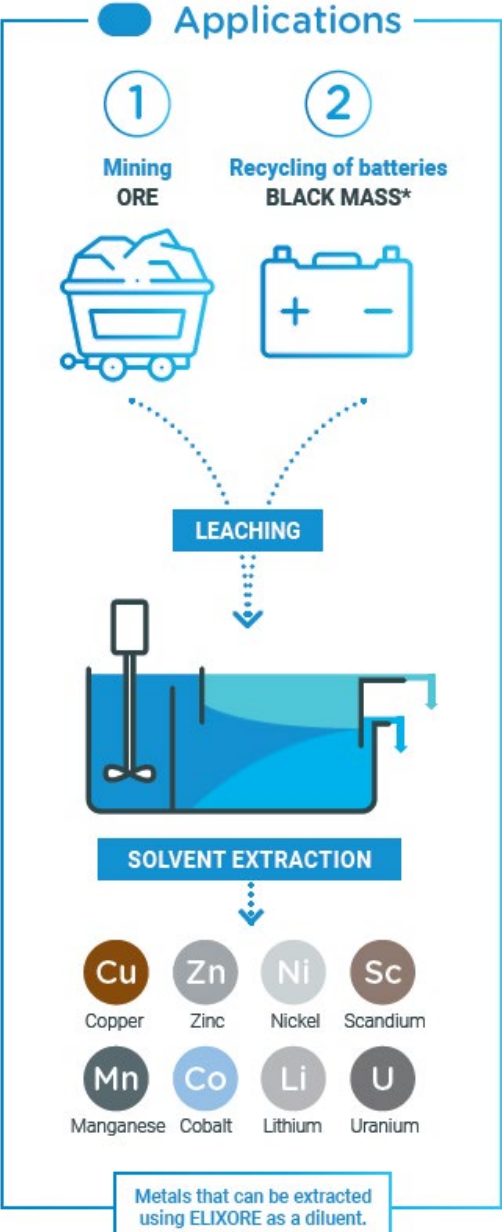
ELIXORE: Aliphatic Diluents dedicated to Solvent Extraction (SX-EW)

A comprehensive choice of perfectly inert, colorless and odorless diluents with ultra low aromatic content.

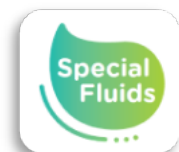
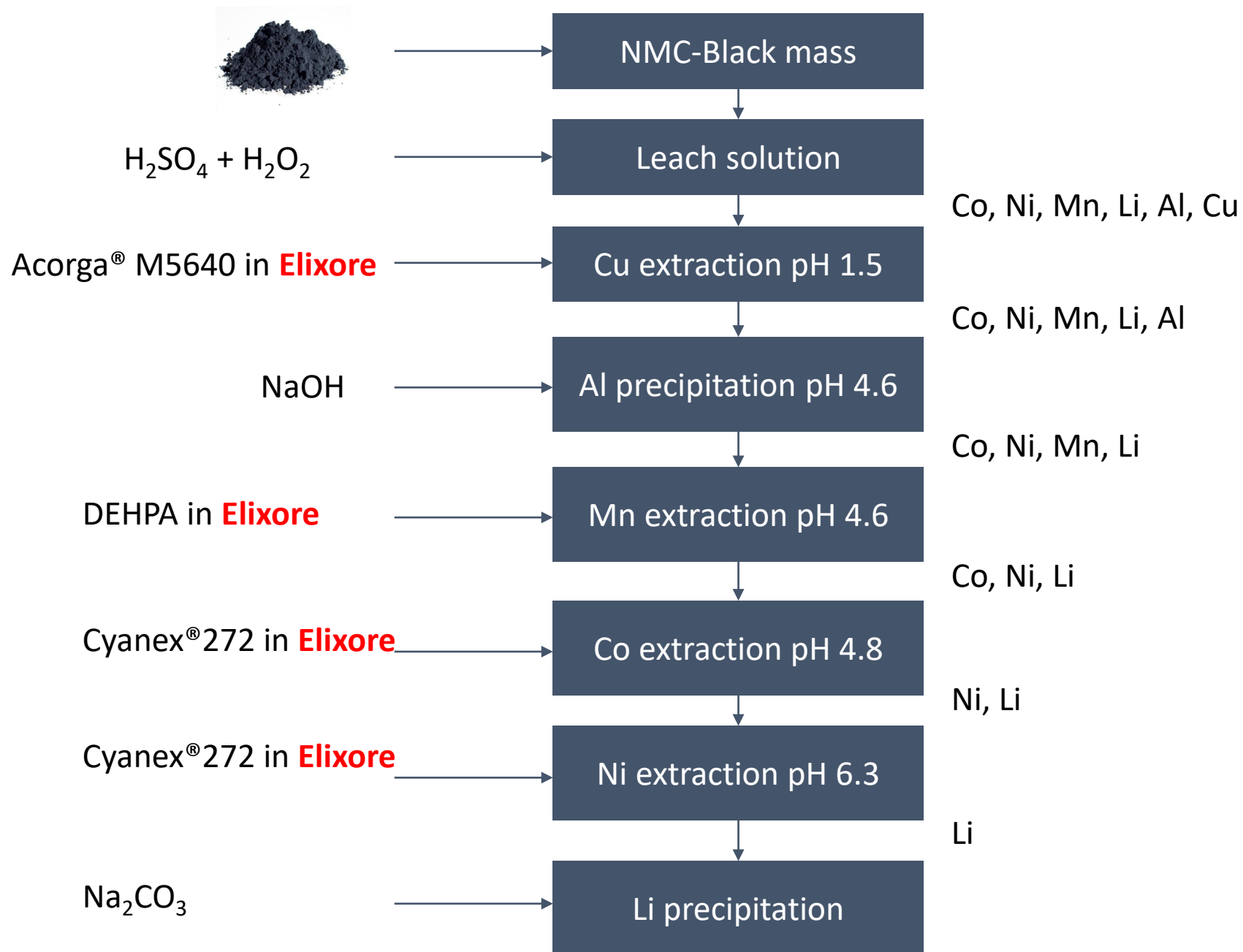


ELIXORE - DILUENTS FOR METAL EXTRACTION

Elixore Applications – Battery Recycling & Mining

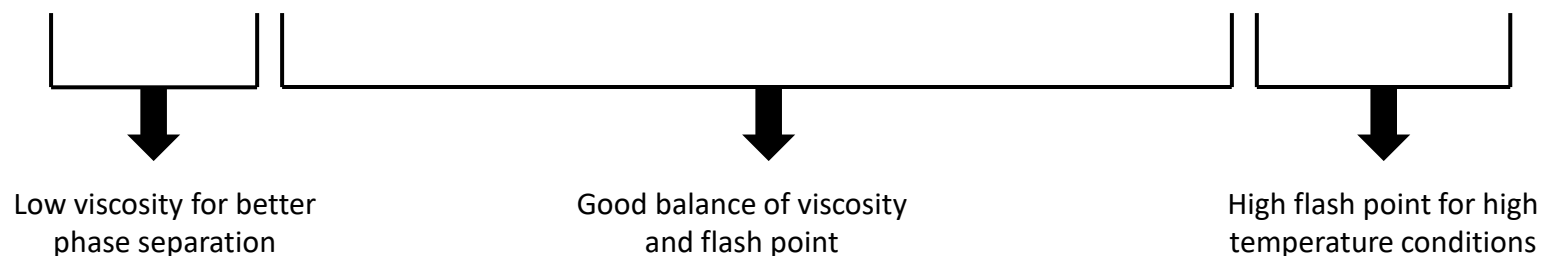


Hydrometallurgy Flow Sheet for the Recovery of Metals from Spent Lithium-ion Batteries

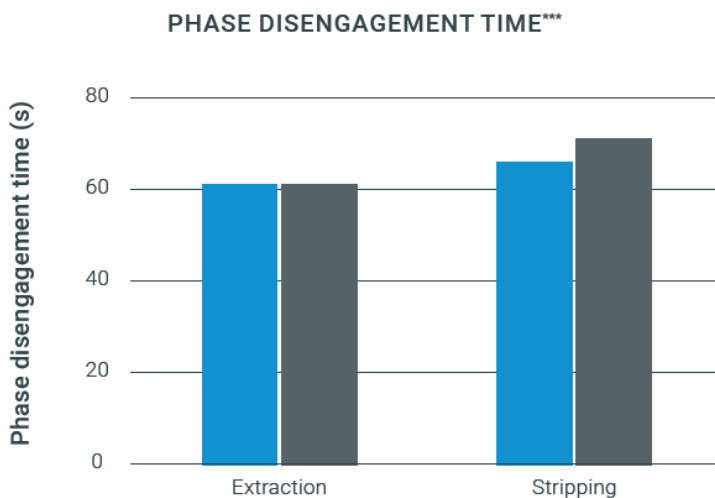
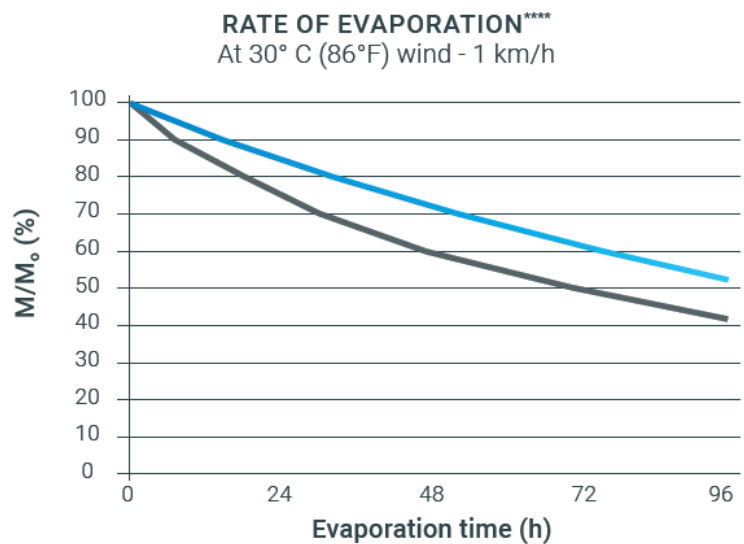
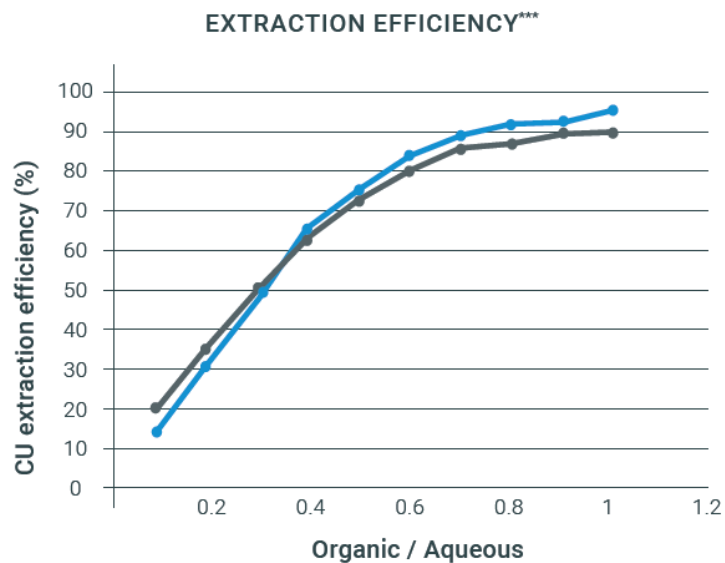


Complete Elixore Range - Typical

Properties	Methods	Units	Elixore 180	Elixore 205	Elixore 205 SFP	Elixore 220	Elixore 230	Elixore 250
Density	ASTM	kg/m ³	805	819	813	819	819	823
Pensky-Martens Flash Point	ASTM D93	°C	69	85	79	85	104	123
Aromatic Content	UV	ppm	<20	<20	<20	<20	<20	<20
Initial Boiling Point	ASTM D86	°C	186	204	198	204	231	257
Dry Point	ASTM D86	°C	222	288	247	288	265	299
Kinematic Viscosity at 40°C	ASTM D445	mm ² /s	1.21	2.23	1.59	2.23	2.38	2.59
Vapor Pressure at 20°C	Calculated	mbars	0.49	0.13	0.13	0.046	0.026	0.0046



■ ELIXORE 205 ■ AROMATIC > 15% DILUENT



ELIXORE 205



AROMATIC > 15% DILUENT

After (acid + oxidant) 6 months degradation

Benefits



Environment Friendly

- Readily biodegradable according to OECD guidelines
- Low Volatile Organic Carbon (VOC) emissions

Unmatched Health Benefits

- Not classified as Carcinogenic, Mutagenic or Reprotoxic (CMR)
- Extremely low vapor pressure ensuring low odor and fume emissions

Performance

- Equivalent or superior performance vs classical aromatic diluents

Less Evaporation Loss

- Lowest evaporation rate among products of same viscosity and flash point range
- Less evaporation → lower diluent consumption → cost savings

Less Crud Formation

- With no aromatics, Elixore is inert to oxidation, thus degradation
- Less degradation = less crud formation, bigger change interval, low operation cost





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