OPTEX®

OPTIMISING PERFORMANCE THROUGH EMULSIFIER EXCELLENCE

OPTEX® offers a reliable and efficient range of PIBSA-based emulsifiers for emulsion explosives application, incorporating innovative technology and decades of manufacturing expertise.

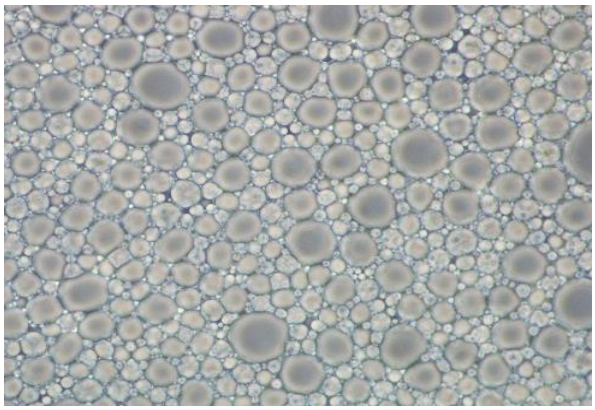
OPTEX® EMULSIFIER RANGE

Our OPTEX® brand offers four core emulsifiers that can be customised to meet your needs:

E21	Robust under a range of conditions and suitable for use with AN of variable quality
E24	Excellent product stability, easy to handle in all climates, affords fast ANE refinement with both high and low shear manufacturing equipment
E25	Good all-round product in temperate climates offering very good ANE stability. Works well with all types of ANE manufacturing processes
E476	Proven application in low pH oxidiser environments, good heat tolerance and versatile in bulk and packaged ANE applications

CUSTOMER FOCUSED APPROACH

Orica Mining Chemicals works with our customers to find the right solutions to our customers' unique challenges. We also offer our technical expertise to develop customised products to meet specific requirements and address pain points.



Ammonium nitrate solution dispersed in fuel oil phase

Orica Deer Park Emulsifier Plant – Melbourne, Australia

ORICA Mining Chemicals

OPTEX® OPTIMISED EMULSIFIERS

WHY ORICA MINING CHEMICALS?

- Commitment to occupational health, safety, and sustainability
- Ability to customise products for specific applications
- Dedicated team of highly experienced scientists and engineers
- Experienced technical support function able to provide in-depth technical advice
- ISO 9001 certified quality management system
- Established global supply chain to over 50 countries

KEY FEATURES

OPTEX® emulsifiers provides innovative and dependable solutions for Ammonium Nitrate Emulsions. From excellent stability to effective performance in diverse environments, our emulsifiers are engineered with a commitment to excellence.

KEY FEATURES	OPTEX® E21	OPTEX® E24	OPTEX® E25	OPTEX® E476
Emulsion stability ANE product stability against crystallisation and coalescence	Excellent	Excellent	Excellent	Excellent
Emulsion refinement Rate of emulsion viscosity increase with high-speed mixing, an emulsifier that refines faster results in the target viscosity being reached earlier	Slow	Fast	Medium	Slow
Compatibility with low quality AN An emulsifier that produces emulsions that are robust against impurities in low quality AN which would otherwise destabilise the emulsion	Excellent	Good	Satisfactory	Satisfactory
Compatibility with used oil An emulsifier that has a low interfacial tension and good diffusion in high viscosity oil to produce a stable emulsion	Excellent	Good	Satisfactory	Poor
Compatibility with low pH oxidiser An emulsifier that is robust when the oxidiser phase has a pH below 3	Satisfactory	Good	Good	Excellent
Emulsifier viscosity The viscosity of the emulsifier product itself which determines ease of handling of the emulsifier product	Good	Excellent	Excellent	Satisfactory

To learn more about OPTEX®, please contact your local Orica Representative, email optex@orica.com or scan the QR code