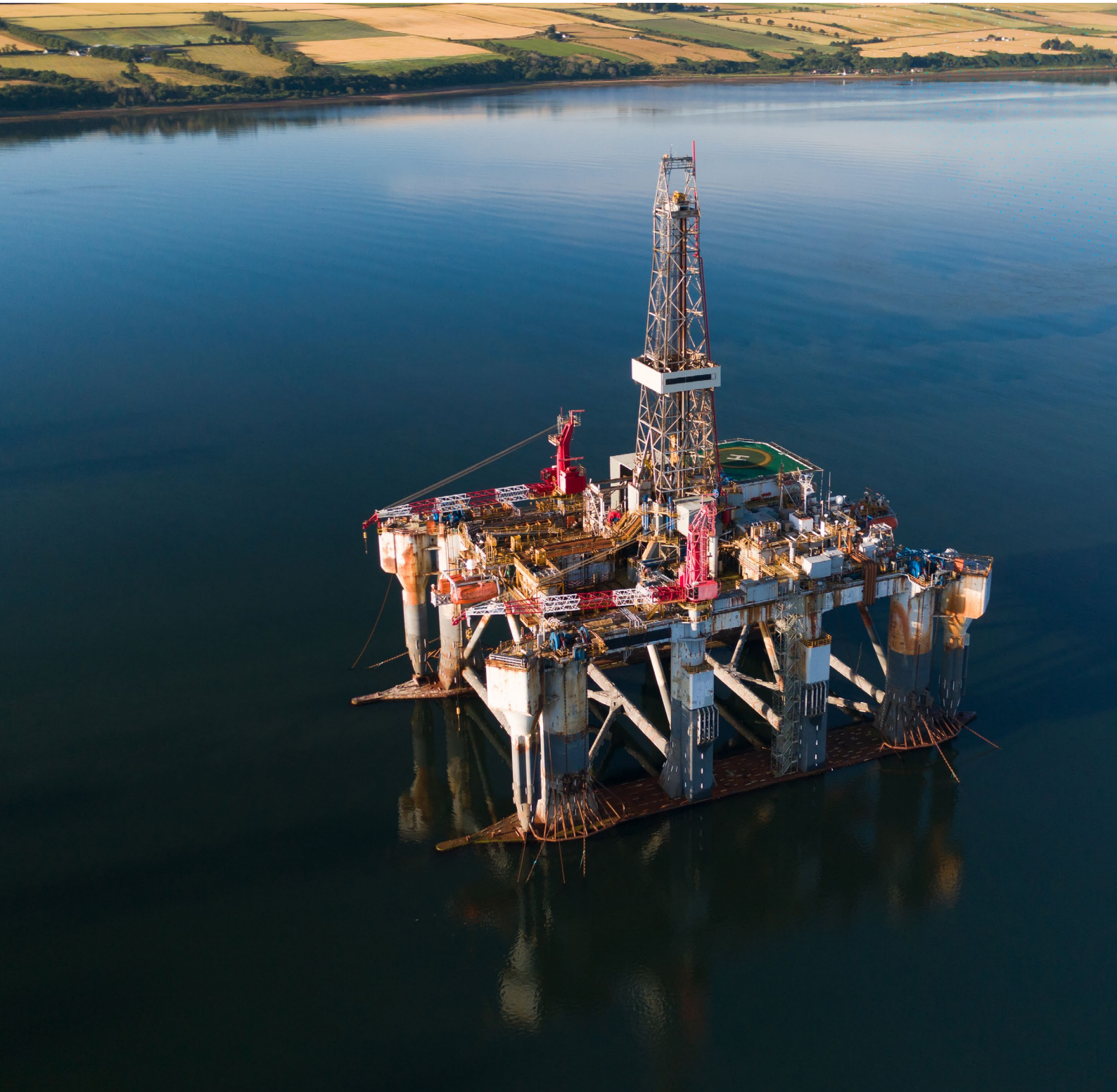
ExxonMobil

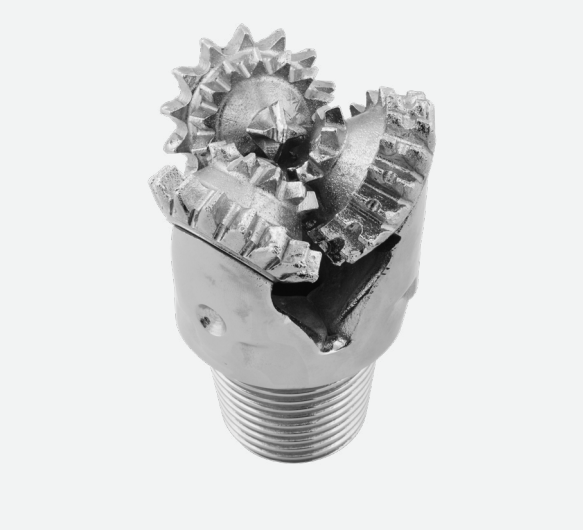
Escaid™ high-performance base fluids bring energy to life



Formulating drilling fluids for challenging conditions

As operators push the frontiers, today's drilling fluids need to perform under increasingly challenging conditions while reducing their environmental footprint. For this, you need the best base fluids.

ExxonMobil remains at the forefront in the supply of drilling base fluids that provide high-performance and low environmental impact for the most demanding drilling conditions.



ExxonMobil understands

- **that the challenges faced** by drillers today include high temperature/high pressure conditions, extended reach wells and multiple formation types
- **that high-quality drilling fluids** are needed to deliver this performance while meeting environmental, industrial hygiene and employee safety requirements
- **that customers want global supply** with the technical expertise to help them meet their needs as they evolve
- **the supply chain requirements** of drilling in remote areas, and the strains that difficult formations can put on drilling fluids consumption

Fluids supporting a sustainable future

ExxonMobil is an industry leader investing in technology and manufacturing facilities that bring products with desirable environmental properties which support sustainable development in the drilling industry.

Escaid™ fluids

Escaid 110 Escaid 115 Escaid 120 Escaid 120 ULA

Escaid fluids have been specifically developed for drilling fluids applications. They help deliver drilling performance advantages to both onshore and offshore applications supporting your commitment to protect the environment and the health of your operators.

Escaid fluid grades include:

- **Escaid 110 fluid** - this very low viscosity fluid (approximately 1.7 cSt at 40°C) serves as a premier product for drilling fluids in deep water or extended reach applications
- **Escaid 115 fluid** - a low viscosity fluid (approximately 2.1 cSt at 40°C) combined with higher flash point
- **Escaid 120 fluid** - gains the advantage of an even higher flash point (above 100°C), low evaporation losses and a viscosity that is just right for many operating conditions
- **Escaid 120 ULA fluid** - provides the same benefits of Escaid 120 but with even less aromatic content

Low aromatic content and high flash point properties help enhance worker safety and meet stringent environmental requirements. Choose the Escaid fluids that meet your needs.

Features

- Low aromatics/polycyclic aromatic hydrocarbon (PAH) content
- Meets requirement for Group III, highest classification by Oil and Gas Producers Association (OGP)
- Fulfills definition requirement for synthetic fluid per OSPAR decision 2000/3
- Low base fluid viscosity
- Portfolio includes high flash point products
- High aniline point
- Low pour point
- Narrow boiling range
- Globally available

Benefits

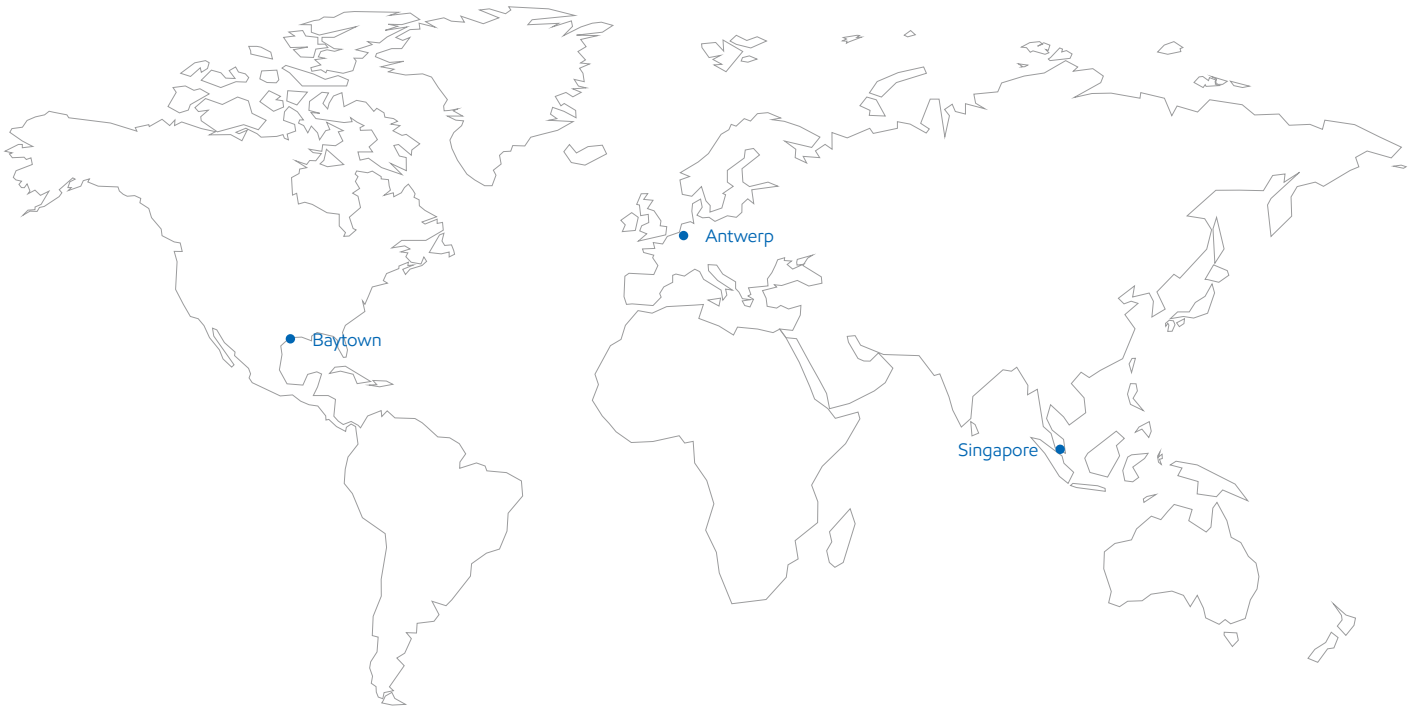
- Low environmental toxicity
- Lower risk of exposure to vapor
- Narrow margin fracture gradient management, critical for extended-reach drilling and high-angle wells
- Helps improve bit hydraulics with more available horsepower from reduced pressure losses
- Aids safety in high-temperature drilling conditions
- Compatibility with elastomers
- Minimal impact to drilling fluid rheology at lowoperating or mud line temperatures

ExxonMobil Chemical Fluids

Key properties*	Escaid 110 fluid(1)	Escaid 115 fluid(2)	Escaid 120 fluid(3)	Escaid 120 ULA fluid(3)
Distillation range (°C)	205 – 239	227 – 253	236 – 265	236 - 264
Aromatics content (%wt)	<0.1	<0.50	<0.50	<0.01
Viscosity at 40°C (cSt)	1.6	2.1	2.3	2.3
Flash point (°C)	81	98	103	103
Pour point (°C)	-39	-32	-33	-33

* All data provided are typicals. Test methods available upon request. (1) Singapore typicals, (2) Baytown typicals, (3) Antwerp typicals.

Escaid™ fluids are available globally



Have a technical question?
Connect directly with our technical experts at **exxonmobilchemical.com/AnswerPerson**

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