



Commodities Expertise **Coal and related commodities**



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Managing the many and severe hazards of coal is a multifaceted task, requiring experience, holistic evaluation and a scientific approach. Not only are certain coals liable to self-heat to combustion, some can evolve explosive gases, some have a corrosive component and some are also a liquefaction hazard.

Apart from the multiple hazards, similar to most valuable traded commodities, coal and related commodities such as coke are frequently subject to claims and quality disputes. Evaluating the appropriate sampling and analysis regimes, often intricate, are therefore critical.

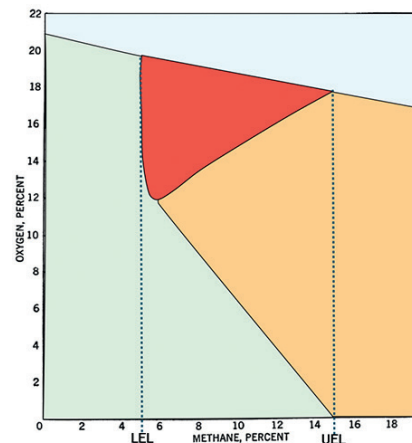
Our cargo scientists can give swift, practical advice and assistance for all these aspects:

Pre- and during loading

- Assessing liquefaction potential of the coal
- Appropriate sampling for quality and safety issues
- Relevant IMSBC Code requirements for all applicable hazards

During the voyage

- Gas and temperature monitoring
- Advising on combustion and explosion hazard management



Coward and Jones 1952: Oxygen vs Methane Limits of Flammability

- Effective guidance and practical steps to decrease risks of hazard and damage
- 24/7 coverage for the vessel's hazard management

During and following offloading

- Securing safe offloading conditions
- Advising on effective and judicious firefighting
- Mitigating damage and reducing claim magnitude
- Sampling and assessment for quality issues



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