

## PRODUCT DATASHEET

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# Spiral Unified Supply Chain Management: Assay

## Manage, Use, and Share the Best Assay Data

High-quality feedstock knowledge is the foundation of effective crude oil supply chain management. Without accurate, complete and up-to-date assay data, effective planning and scheduling is impossible. As part of Spiral Unified Supply Chain Management, Assay is designed to make working with crude oil data easy.

# Key Features

- Easy and flexible interface lets users display, enter and visualise complex information
- Powerful modeling for validation or prediction of crude oil properties; save time and money in the laboratory
- Work with different levels of data, from cargo-data, trader assays or full laboratory reports with flexible workflows to help evaluate, compare and explain results
- The industry-leading, enterprise toolset adopted by over 100 companies at more than 300 sites worldwide and used by Shell, Chevron, BP and ExxonMobil for confidence in workup and synchronisation
- Reduce specialist expertise in workup; consistent modeling improves workup across multiple locations and multiple users standardising decision making. Full control of generation is always available with complete feedback on changes
- Provided with an extensive list of existing crude data curated by Spiral, and licensable with third-party assay libraries from Shell or Chevron to help stay up-to-date with new crudes and assays
- Easy-to-use distillation modeling helps improve accuracy in planning and scheduling using easily available measurements; increase margins with more confidence in processing behaviour
- Flexible for crudes, residues, straight-run products and blends; use and improve the information available to you; quickly implement in Spiral Unified Supply Chain Management or other third-party tools via fast and customizable reporting and integration
- Share information via CrudeSync across users and sites to propagate new information and ensure consistent decision making
- Unified within Spiral Unified Supply Chain Management to guarantee consistent crude oil data for planning, scheduling and trading; eliminate time-consuming integration steps

Assay's unified supply chain environment helps organizations make the best use of their assay information. From sparse data sets to rich laboratory output, users can easily enter, validate and use crude oil knowledge in collaborative decision making across small and large enterprises.

**High Performance Computing**  
Scalable processing for massive optimization analyses

**Staging Server**  
Integration of plant and execution data

**SDK**  
Integration & automation via .NET & COM

**Assay**  
Feedstock knowledge management  
Netback analysis  
Blend optimisation  
Cargo tracking & alerting

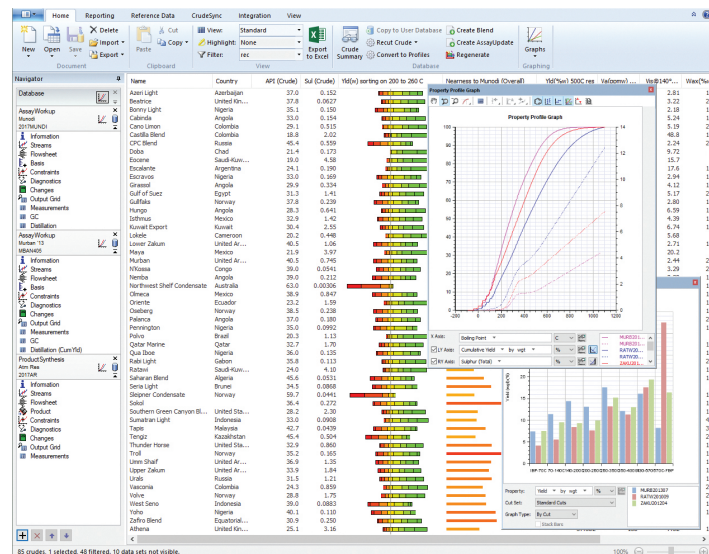
**Plan**  
Feedstock selection  
Business planning  
Operational planning  
Master planning

**Network**  
Supply distribution optimisation  
Multi-plant optimisation  
Logistics optimisation

**Schedule**  
Operational scheduling  
Multi blend optimisation  
Plan vs schedule analysis  
Plan data reconciliation

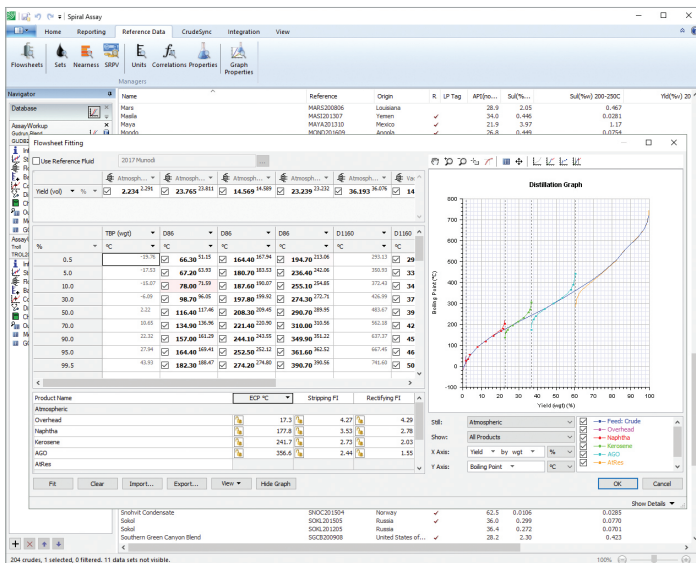
**Process Model Generator**  
Base Delta regression from plant and simulator data  
Base Delta model tracking and analysis

Spiral Unified Supply Chain Management



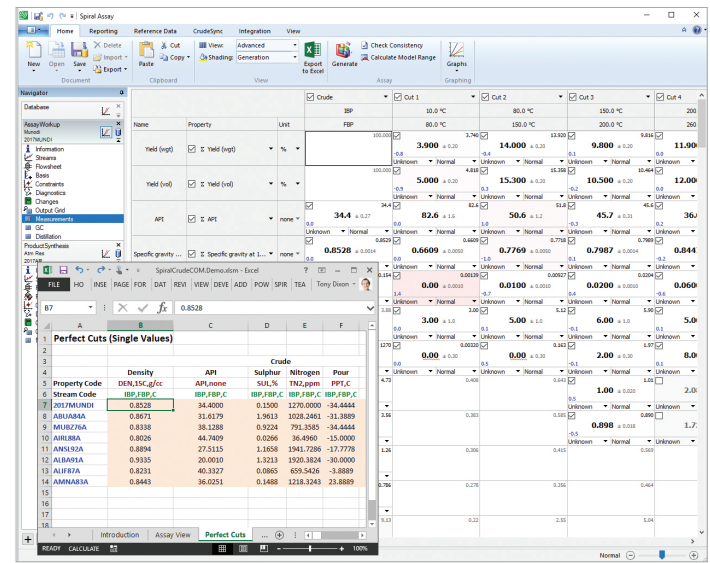
## Easy and accurate modeling

Working from any data source, Assay's flexible interface allows users to quickly enter and validate input. Industry-leading statistical modeling helps cut costs and prevent mistakes, ensuring accurate and complete assay data is available for all users. New and experienced users can quickly obtain consistent results, with the flexibility to meet evolving business requirements. Powerful distillation modeling improves accuracy letting users model real-life plant behaviour for feedstocks, improving confidence in planning and scheduling, and reducing gaps between model and operations. Unified with Spiral Unified Supply Chain Management, complete data is immediately available for planning and scheduling, opening new workflows for more robust decision making with uncertain qualities and price.



## Integrate with and improve existing process

With flexible reporting and integration to existing software and business systems, output from Assay can be quickly used across the enterprise. Integrated with legacy planning and scheduling tools, or transferred to process simulators, full and accurate crude oil data can be made available for bespoke and changing business process. Accessible in-tool, via Excel or programmatically via the Spiral Unified Supply Chain Management SDK, easy automation reduces manual workflows, and speeds up data transfer and decision making. Synchronization across the enterprise helps ensure every tool and every user always has the same and the correct information, while the intuitive interface allows users to customize the application to meet their current and future needs.



## Spiral Unified Supply Chain Management

Build and share knowledge and experience with Spiral Unified Supply Chain Management's single platform enabling visibility and optimization of the entire supply distribution process. Simple, fast and secure, each stakeholder works side-by-side, with shared understanding and shared confidence in robust and realizable decisions and strategies.

For more information on AVEVA's Spiral Unified Supply Chain Management, please visit [sw.aveva.com/plan-and-schedule](http://sw.aveva.com/plan-and-schedule)

