

Our Solutions for Product Analysis in Tank Terminals

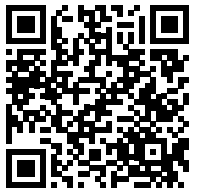


Tank Terminals Overview



Be Efficient. Be Confident. Be in Control: **Solutions** for Tank Terminals

FIND OUT MORE



[www.anton-paar.com/
apb-tank-terminal](http://www.anton-paar.com/apb-tank-terminal)

UPGRADE YOUR ANALYTICAL CAPABILITIES TO SAVE TIME AND REDUCE COSTS

With our broad portfolio of analyzing instruments for tank terminals – ranging from portable devices that you can use in hazardous environments to highly accurate lab instruments and inline equipment that give you real-time results – you're ready to implement your own 24/7 lab base and perform essential tests in just a few minutes.

FUTURE-PROOF YOUR TERMINAL

With us, the choice is yours: Start with simple lab analysis or go directly for the online sensor, which delivers real-time results right from the pipe. Future-proof your terminal – no matter the number and type of products traded at it.

- ✓ React fast and maximize your throughput by measuring on-site or inline
- ✓ Store products safely by testing optimal storage conditions
- ✓ Certify your products according to standard specifications
- ✓ Save time – up to 50 % – and eliminate operator influence by replacing your traditional methods
- ✓ Reduce waste and limit your environmental impact by using small sample and solvent volumes

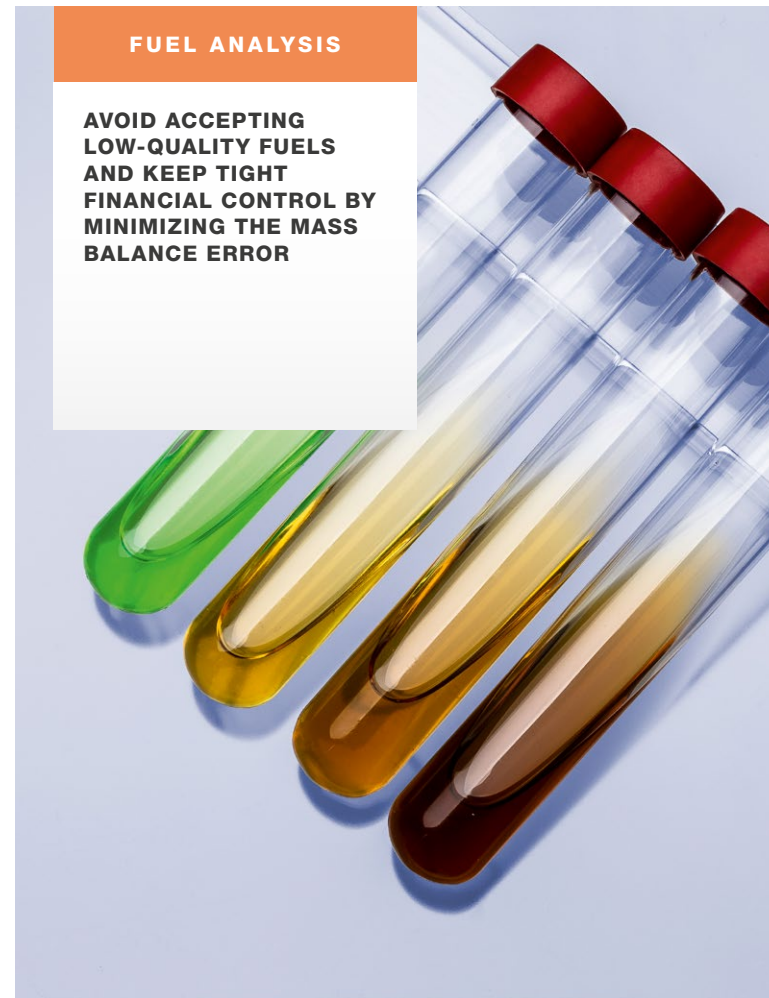
CRUDE OIL ANALYSIS

OPTIMIZE THE FLOW BEHAVIOR OF TRADED CRUDE OIL AND ENSURE GOOD PUMPABILITY FOR TRANSPORT



FUEL ANALYSIS

AVOID ACCEPTING LOW-QUALITY FUELS AND KEEP TIGHT FINANCIAL CONTROL BY MINIMIZING THE MASS BALANCE ERROR



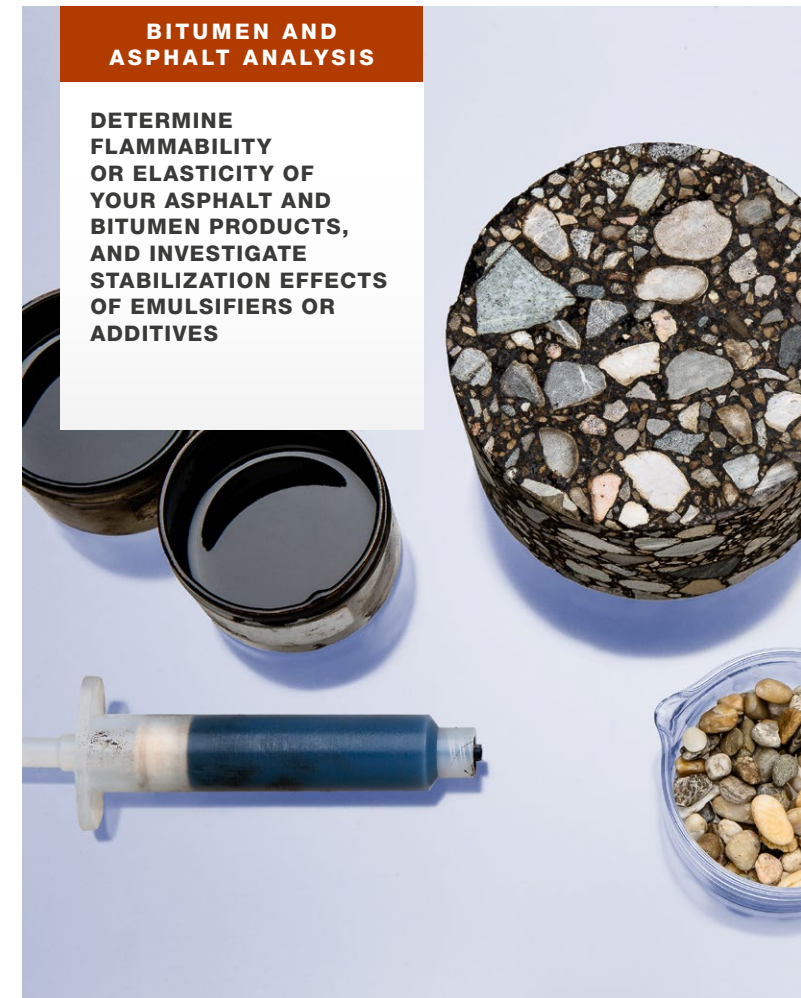
LUBRICANT ANALYSIS

CONDUCT QUICK BLENDING CHECKS AND SAVE MONEY THROUGH FAST TURNAROUND TIMES AT THE FILLING LINE, WHICH REDUCES THE AMOUNT OF LUBRICANT THAT GOES TO WASTE



BITUMEN AND ASPHALT ANALYSIS

DETERMINE FLAMMABILITY OR ELASTICITY OF YOUR ASPHALT AND BITUMEN PRODUCTS, AND INVESTIGATE STABILIZATION EFFECTS OF EMULSIFIERS OR ADDITIVES



Quality at Your Fingertips

Be certain about the quantity and quality of products entering and leaving your tank farm. With efficient on-site checks, make quick decisions so you don't accept wrong or faulty products. Get clarity on your outgoing goods: Avoid future complaints and protect your reputation by having full control over a product's specifications. Prevent mix-ups and trim interfaces with tighter control to lower your operational costs.

- LABORATORY MEASUREMENT
- PORTABLE MEASUREMENT
- PROCESS MEASUREMENT



DELIVERY



DENSITY, VISCOSITY, RHEOLOGICAL PROPERTIES

- ✓ Fine-tune product composition of crude oils for good pumpability
- ✓ Avoid accepting faulty products
- ✓ Close valves promptly and stop pumps for exact product separation
- ✓ Keep mix-ups in multiproduct pipelines low
- ✓ Reduce your product loss and waste treatment costs
- ✓ Save time by performing tests on-site or inline

STORAGE



DENSITY, VISCOSITY, REFRACTIVE INDEX, DISTILLATION, OXIDATION STABILITY, FLASH POINT, FIRE POINT, RHEOLOGICAL PROPERTIES, MOLECULAR SPECTROSCOPY

- ✓ Detect fuel degradation and contamination quickly
- ✓ Simulate and assess storage behavior of final products
- ✓ Ensure maximum safety by performing a hazard classification
- ✓ Quickly monitor the dewatering process of fuels for exact separation
- ✓ Conduct blending checks and final product control

CERTIFICATION AND CLASSIFICATION



DENSITY, VISCOSITY, DISTILLATION, FLASH POINT, FIRE POINT, OXIDATION STABILITY, GUM CONTENT, COLD FLOW PROPERTIES, PARTICLE SIZE, PENETRATION, RHEOLOGICAL PROPERTIES

- ✓ Create product datasheets and release them for sales
- ✓ Define hazard class for maximum safety during storage and transportation
- ✓ Facilitate account settlement for bitumen and asphalt: Conduct SG analysis at up to 200 °C

DISTRIBUTION



DENSITY, VISCOSITY, FLASH POINT, RHEOLOGICAL PROPERTIES

- ✓ Determine exact mass of products entering and leaving to minimize mass balance error
- ✓ Effectively fill or unload lubricant barrels
- ✓ Ensure correct allocation of product to transport vehicle
- ✓ Conduct volume to mass conversion for precise account settlement and airplane fueling

Upgrade Your Analytical Capabilities

Our affordable, easy-to-use digital instrumentation complies to internationally acknowledged standards and eliminates operator influence from your processes, giving you the confidence and peace of mind that your measurements are always accurate. Safely store data on the instrument or use our lab execution software AP Connect, which links 50+ instruments and stores all data in a single, digital space.

DMA 35 Ex Petrol ●

DMA 35 Ex Petrol is the only intrinsically safe portable density meter for quick and reliable product identification according to ASTM D7777 – even in hazardous environments. In contrast to hydrometers, this instrument covers the whole density range for all your products and gives you results 10x faster.



DMA 1001 ●

The compact density meter DMA 1001 verifies product specifications according to ASTM D4052 outside the traditional lab. It only requires 70 % of the space compared to other density meters. External influences don't affect the stable measuring technology, so you can place the instrument in a mobile lab or near a sampling location.



Xsample 530/630 + DMA 4x01 / SVM 3001 ●

The high-throughput sample changers, Xsample 530 for up to 71 fuel samples and Xsample 630 with 36 positions for heavy samples, fully automate your lab density and viscosity meters. DMA 4101 gives you the highest throughput rates when certifying your products according to ASTM D4052. With DMA 4501, enhance your volume-to-mass conversion. Or, if you need to conduct additional measurements of viscosity according to ASTM D7042 for petroleum samples, upgrade your SVM 3001.



L-Dens 7000 ●

The L-Dens 7000 process density sensors series provide highly accurate (4-digit), real-time density measurement for volume-to-mass conversion. This minimizes mass balance errors and ensures quick product identification in multiproduct pipelines, giving you continuous quality control.



SVM 1001 ●

With a single measuring cell, the SVM 1001 series' features cover the entire relevant measuring range for viscosity, temperature, and density. It's a budget-friendly, ASTM D7042-compliant solution for conducting kinematic viscosity measurements of different fuel samples (e.g., jet, diesel, and heavy fuel).



Diana 700 ●

Used for distillation analysis according to ASTM D86, Diana 700 determines at which temperatures evaporation losses occur and whether liquid petroleum products meet the desired safety classification (i.e., boiling behavior). With efficient Peltier technology, reach required temperatures for various distillation groups in less than five minutes.



PMA 500 ●

With the PMA 500 flash point tester, define the hazard classification of fuels, which is crucial for safe storage and transport. Its unique, ceramic-coated electric igniter reduces operational costs and has a life span that's 10x longer compared to a traditional igniter. Its cooling technology reduces measurement times by 10 %.



