



## DENSITY - API GRAVITY TESTING EQUIPMENT

# Density - API Gravity Testing Equipment

In the petroleum industry, density and API gravity are two of the most fundamental physical properties used to characterize crude oil and refined petroleum products. API gravity is the American Petroleum Institute's standard measure of how light or heavy petroleum liquid is compared to water, and its relationship with specific gravity makes it indispensable for product classification, quality control, and commercial valuation.

Understanding the conversion from API to specific gravity — and vice versa — is critical for laboratories, refineries, and trading operations worldwide. Torontech's density and API gravity testing instruments are engineered to deliver precise, repeatable measurements aligned with ASTM D287 and other internationally recognized standards, making API gravity and specific gravity determination straightforward and reliable.

## APPLICATIONS

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### Application

Density and API gravity measurement play a central role across the entire petroleum value chain. Key application areas include:

- Crude oil classification and custody transfer: API specific gravity determines whether a crude is light, medium, or heavy, directly affecting market pricing.
- Refined product quality control: Gasoline, diesel, kerosene, and jet fuel must meet defined API gravity ranges for compliance and performance specifications.
- Refinery process monitoring: Continuous density tracking helps operators optimize distillation and blending processes.
- Lubricant and base oil characterization: API Gravity Density data supports formulation and viscosity-grade verification.
- Regulatory and trade compliance: Accurate API gravity and specific gravity values are required for ASTM, IP, and ISO certification of petroleum products.

## FEATURES

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### **Why Choose Torontech's Series for Your Density & API Gravity Testing?**

Torontech's density and API gravity instruments are built to meet the demanding requirements of modern petrochemical laboratories:

- **Standards-Compliant Design:** Fully aligned with ASTM D287, D1298, and related methods for API gravity and specific gravity determination.
- **Precision Engineering:** Calibrated for accurate API to specific gravity conversion and API specific gravity readings across a wide range of petroleum products.
- **Robust Construction:** Built for continuous laboratory use with materials resistant to petroleum solvents and chemicals.
- **Ease of Use:** Intuitive operation minimizes training time while ensuring consistent, reproducible density results.
- **Expert Technical Support:** Torontech's dedicated team provides application guidance, calibration support, and after-sales service.



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