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**API GRAVITY
 & DENSITY
 CALCULATORS**

**BULLETIN 100
 (03-04)**

API GRAVITY AND DENSITY CALCULATORS

API GRAVITY CALCULATOR GTP-3012-1A

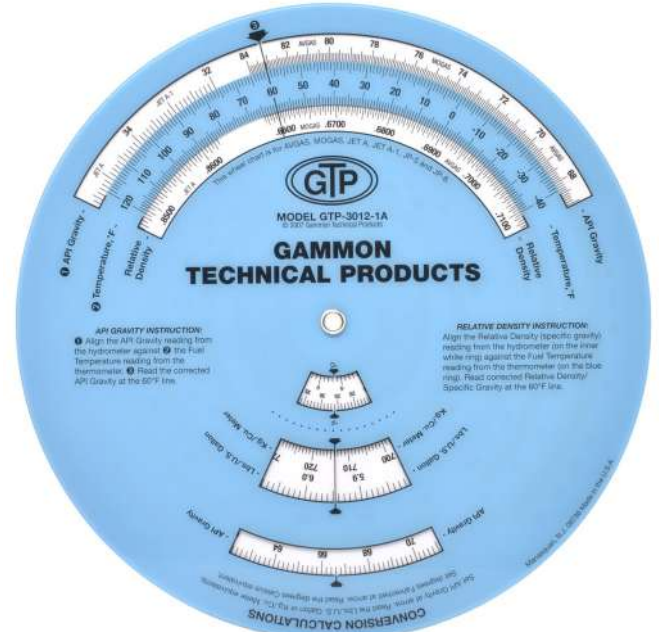
Corrects API hydrometer readings at any temperature (°F) to API degrees at 60°F.

Corrects relative density hydrometer readings at any temperature (°F) to relative density at 60°F

Converts API gravity to relative density*

Converts API gravity to metric density (kg/m³)

Converts API gravity to weight (lbs/gal)



DENSITY CALCULATOR GTP-2727EF

Converts density readings taken with a hydrometer to corrected density at 15°C

Separate scales for 3 different types of fuel:

- Kerosene (Jet A, Jet A-1, JP 5, JP 8)
- Wide Cut (JP 4, Jet B)
- Avgas

Scales read in kg/m³

* "Relative density" is now the accepted term for "specific gravity."

INSTRUCTIONS FOR API CALCULATOR GTP-3012-1A

1. Rotate the disk until the observed hydrometer reading ($^{\circ}\text{API}$) is aligned with observed temperature ($^{\circ}\text{F}$).
2. Read the corrected $^{\circ}\text{API}$ at the 60°F arrow.

NOTE: If a relative density or specific gravity hydrometer is used, set the hydrometer reading opposite the observed temperature. Then read the corrected relative density at the 60°F arrow.



INSTRUCTIONS FOR DENSITY CALCULATOR GTP-2727EF

1. Rotate the disk until the observed hydrometer reading is aligned with observed temperature.
2. Read the corrected density at the 15°C arrow.

This circle represents the actual diameter of both calculators.

NOTE ON GTP-3012-1A

Results obtained with this calculator in the API gravity range from 48 to 51 (or a correction that goes through this range) cannot be compared to the printed tables because we have avoided error created by this transition zone (see Volume X of Petroleum Measurement Tables (D1250-80/IP200), pages X-73 to X-79). For jet fuels, we extended the curve upward using the original equation without entering the transition zone. For avgas, we extended the gasoline curve downward in the same manner. From a technical standpoint, our scales will yield more accurate results than the printed tables.

NOTE ON GTP-2727EF

Results obtained with this calculator in the density range from 770 to 784 kg/m^3 (or a correction that goes through this range) cannot be compared to the printed tables because we have avoided error created by this transition zone (see Volume X of Petroleum Measurement Tables (D1250-80/IP200), pages X-73 to X-79). For jet fuels, we extended the curve upward using the original equation without entering the transition zone. For avgas, we extended the gasoline curve downward in the same manner. From a technical standpoint, our scales will yield more accurate results than the printed tables.