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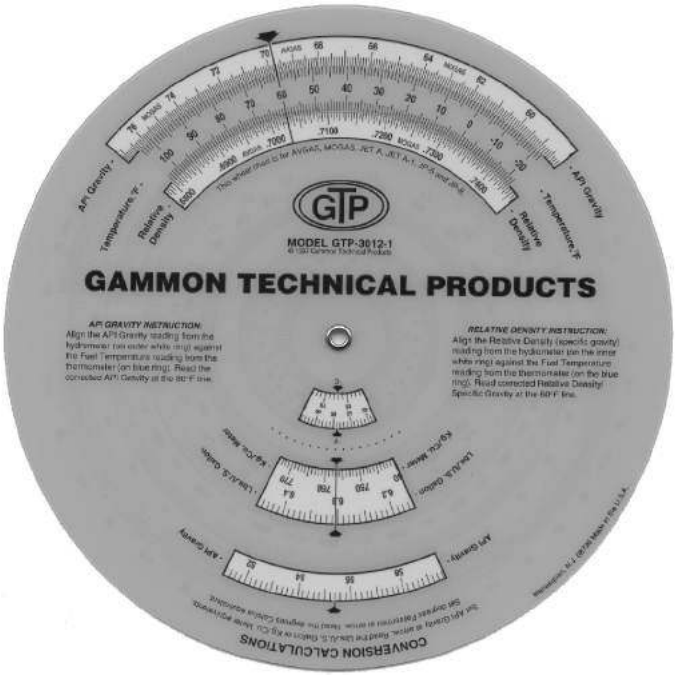
API GRAVITY
& DENSITY
CALCULATORS

BULLETIN 100
(3-04)

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	WIDE CUT	AVGAS
Jet A	JP 4	
Jet A-1	Jet B	
JP 5		
JP 8		

- Scales read in kg/m³

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

This circle represents the actual diameter of both calculators.

INSTRUCTIONS FOR API CALCULATOR GTP-3012-1A

1. Rotate the disk until the observed hydrometer reading (°API) is aligned with observed temperature (°F).

2. Read the corrected °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

(also printed in French)

1. Rotate the disk until the observed hydrometer reading is aligned with observed temperature.

2. Read the corrected density at the 15°C arrow.

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/m³ (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.