

GP[®] 4447 36% Formaldehyde Solution, 11% Methanol Inhibited

PRODUCT INFORMATION

Georgia-Pacific Chemicals supplies formaldehyde (HCHO) solution at 36% concentration inhibited with 11% methanol. This high purity solution is produced by the catalytic oxidation of synthetic methanol under rigid quality control conditions. Other concentrations of formaldehyde, both uninhibited and inhibited with methanol, are available.

USES AND APPLICATIONS

Solutions of formaldehyde are used primarily in the manufacture of synthetic resins due to their high reactivity with phenol, urea, melamine and other similar compounds. These resins are then used to produce coatings; varnishes and enamels; molded articles and high-pressure laminates; adhesives for plywood, particleboard and other wood panelboard products; resins for adding wet strength to paper; foundry core and shell binders; glass and mineral wool insulation; and agrochemicals.

STORAGE AND HANDLING

Formaldehyde solutions should be stored in well ventilated areas away from oxidizing and alkaline materials. The recommended storage temperatures should be maintained to prevent polymerization which may occur at low temperatures and may plug equipment. Formaldehyde vapor may be given off at high temperatures. Prolonged storage should be avoided to minimize increases in acidity and to prevent polymerization. Storage tanks of type 304 stainless steel are preferred. Iron, copper and bronze are not recommended for tanks or lines. Steel, copper and certain alloys may discolor the product. For some uses, fiberglass or aluminum tanks are satisfactory. Because formaldehyde vapor is combustible, storage tanks should be properly grounded. Formaldehyde solutions are stable and under normal conditions can be easily handled. Keep container closed when not in use. Use only in well ventilated areas. Georgia-Pacific Chemicals supplies formaldehyde in insulated stainless steel tank trucks and lined, insulated tank cars equipped with heater coils. Additional information on the safe handling of formaldehyde is in the Safety Data Sheet available from Georgia-Pacific Chemicals.

TYPICAL PROPERTIES

Formaldehyde, wt. %	36.0 – 36.5
Methanol, wt. %	10.0 – 12.0
Acidity, wt. % as formic acid	0.03 maximum
Color, APHA	10 maximum
Specific Gravity	Approx. 1.085
Weight per gallon, lb.	Approx. 9.0
Flash Point, °F (Pensky-Martens Closed Cup)	147
Suggested Storage Temperature, °F	59 – 86

866-4GP-CHEM

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