

COLD CLEANING WITH HALOGENATED SOLVENTS

 **STP 403A**

**AMERICAN SOCIETY FOR
TESTING AND MATERIALS**

COLD CLEANING WITH HALOGENATED SOLVENTS

A manual
prepared by ASTM
Committee D-26 on
Halogenated Organic Solvents
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Foreword

This revised manual was developed under the auspices of ASTM Committee D-26 on Halogenated Organic Solvents. It deals primarily with cold cleaners that fall within the scope of Committee D-26: “halogenated organic solvents and admixtures thereof.”

The discussions are confined to materials that are usually volatile and will evaporate at room temperature. These chemicals do not contain substantial quantities of nonvolatile additives as do solvent emulsion cleaners, carbon removal compounds, paint strippers, and other detergents which also may contain halogenated organic solvents. Cold cleaners are generally used full strength, not diluted or mixed with other materials. They contain little or no water.

The term “cold cleaning” as used here refers to operations in which soil removal is accomplished through direct contact with a solvent or mixture of solvents at any temperature below the boiling point of the solvents used. Cold cleaning procedures are basically processes in which liquid contact by spray, dip, or wipe accomplishes the solution and removal of soils rather than vapor contact, as is true in vapor degreasing. We specifically exclude cleaning with water-soluble detergents as well as vapor degreasing, which has been covered in the *Handbook of Vapor Degreasing*.

Solvents used for charging of fire extinguishers and dry cleaning also fall outside the scope of this manual.

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A Note of Appreciation to Reviewers

This publication is made possible by the authors and, also, the unheralded efforts of the reviewers. This body of technical experts whose dedication, sacrifice of time and effort, and collective wisdom in reviewing the papers must be acknowledged. The quality level of ASTM publications is a direct function of their respected opinions. On behalf of ASTM we acknowledge with appreciation their contribution.

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Related ASTM Publications

Handbook of Vapor Degreasing, STP 310A (1976), \$6.00, 04-310010-15

**Sampling and Analysis of Toxic Organics in the Atmosphere, STP 721 (1980),
\$19.75, 04-721000-19**

Fire Standards and Safety, STP 614 (1977), \$27.75, 04-614000-31

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