

# **Specification for White Spirit (Solvent 402)**

Prepared by: ATDM Co.

Product Name: White Spirit (Solvent 402) Synonyms: Mineral Spirits, Solvent 402

CAS Number: 8052-41-3 Molecular Formula: C10H22

#### 1. General Information

Appearance: Clear, colorless liquid

Odor: Characteristic solvent odor

Product Code: [Product Code]

• Packaging: Available in various packaging sizes including drums, cans, and bulk containers.

### 2. Chemical Properties

• Flash Point: 38°C (100°F)

• Boiling Point: 140-200°C (284-392°F)

Density: 0.79-0.81 g/cm<sup>3</sup>

• Viscosity: 0.5-0.6 cP @ 20°C

• Solubility: Insoluble in water, soluble in organic solvents.

• Vapor Pressure: 0.5 mm Hg @ 20°C

Evaporation Rate: Similar to n-butyl acetate

### 3. Physical and Chemical Characteristics

Property Specification

Color Clear, Colorless

Odor Characteristic solvent odor

Flash Point 38°C (100°F)

Boiling Range 140-200°C (284-392°F)

Density  $0.79-0.81 \text{ g/cm}^3$ 

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Property Specification

Specific Gravity 0.79-0.81

Refractive Index 1.45 - 1.47

Solubility Insoluble in water, soluble in organic solvents

# 4. Purity and Composition

Component Percentage

Aliphatic Hydrocarbons 60-80%

Aromatic Hydrocarbons 5-15%

Others <5%

### 5. Impurities

• Water Content: ≤ 0.1%

• Sulfur Content:  $\leq 0.1\%$ 

• Acidity: ≤ 0.05% (as acetic acid)

# 6. Performance Specifications

- Purity: 99.5% minimum (aliphatic hydrocarbons)
- Aromatic Content: ≤ 10%
- Residue on Evaporation: ≤ 0.1%
- Color (Saybolt): 30 minimum
- Distillation Range (at 760 mmHg): 140-200°C (284-392°F)

## 7. Health and Safety

- Hazard Class: Flammable Liquid (Category 2)
- Precautions:
  - Handle in a well-ventilated area.
  - o Avoid inhalation of vapors.

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- o Avoid skin and eye contact.
- Use proper protective equipment (gloves, goggles, respiratory protection).

### 8. Storage and Handling

- Storage Conditions:
  - Store in a cool, dry place away from heat, sparks, and open flames.
  - o Keep containers tightly closed.
  - o Avoid exposure to direct sunlight.
- Shelf Life: 12 months from date of manufacture when stored properly.

### 9. Regulatory Compliance

- CAS Number: 8052-41-3
- REACH Compliance: This product complies with the EU REACH regulation.
- TSCA Compliance: This product is listed on the TSCA inventory.

### 10. Applications

- Paint Thinning: Used as a thinner for oil-based paints and varnishes.
- Cleaning Agent: Ideal for cleaning brushes, rollers, and equipment used in painting.
- Degreasing: Effective for degreasing machinery and parts.
- General Solvent: Suitable for use in various industrial and household applications.

### 11. Packaging Options

- Standard Packaging:
  - o 1-liter, 4-liter, 10-liter cans
  - o 200-liter drums
  - Bulk containers available upon request.

Prepared by: ATDM Co. Date Prepared: 2025.01.02

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