

WD-40® Technical Data Sheet



Typical Physical Characteristics—China / Asia

Appearance: Aerosol—Aerosolized Liquid Bulk—Liquid Color: Light amber cloudy liquid Odor: Characteristic Freeze Point/Pour Point: < -66° C (-86° F) (ASTM D-97) Kinematic Viscosity @ 38° C (100° F): 2.5 cSt Specific Gravity @ 25° C (77° F): 0.80	Boiling Point (initial): 183° C (360° F) Vapor Density: >1 Flash Point: 45° C (110° F) (TCC) Percent Volatile: 66-67% by weight Lower flammability limit: 0.6% Upper flammability limit: 8.0% Vapor Pressure: Aerosol: 95-115 psi @ 21° C (70° F) Bulk: 1 psi @ 38° C (100° F) (ASTM D323)
--	---



Product Features

WD-40 lubricates moving parts such as hinges, wheels, rollers, chains, and gears. It protects against rust and corrosion on items like tools, and sporting equipment. It penetrates to free stuck corroded parts like nuts, bolts, valves and locks. It quickly removes adhesives, corrosion and paint. It displaces moisture to restore water flooded equipment such as engines, spark plugs and power tools.

Packages

Smart Straw® (available in 8oz, 11oz and 12oz)	
Big Blast® (18oz)	
3oz Can	
Trigger Pro® Non-Aerosol (20oz)	
Spray Applicator Bottle (16oz)	
Bulk (available in 1 gallon, 5 gallon and 55 gallon drum)	

Fluid Properties

Operating Temperature: -50° C to 150° C (-60° F to 300° F) Dielectric Strength: 38,000 volts per 0.10 inch Solubility in Water: Insoluble	Kb Value: 25 Wet Film Thickness: 50 um (0.002 inch) Coverage: 600-1000 ft ² per gal
Surface Compatibility For all variations: WD-40 demonstrates none to negligible deleterious effect to plastic, rubber, and metal hard surfaces. This includes Acetal, neoprene/hard rubber, HDPE, PPS Copolymer Polysulfone, Teflon, Viton, steel, galvanized steel hot dip, electroplated, copper, brass, magnesium, nickel, tin plate, titanium, and zinc.	Surface Cautions Nearly all surfaces interact with WD-40 as they would any high grade aliphatic petroleum spirit. Certain types of rubber will swell upon prolonged immersion. Wax polishes and certain wax coatings may be softened by WD-40. Clear polycarbonate and polystyrene may stress craze or crack. Always test surfaces first.

Typical Performance - WD-40® Multi-Use Product

Test Method	Property	Results
ASTM 4172	Lubricates and Protects	0.70 mm at 25° C (77° F)
ASTM 3233	Extreme Pressure Lubrication	1200 lbs
ASTM B-117	Corrosion Protection (Salt Spray)	0% in 72 hours

WD-40 and the Environment

- WD-40 Multi-Use Product does not contain chlorofluorocarbons (CFCs), (HCFCs)
- WD-40 Multi-Use Product does not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated diphenylether complying with the restricted substances listed in Article 4(l) of the RoHS Directive.
- WD-40 Multi-Use Product contains no ingredients requiring California Prop 65 listing or labeling such as benzene or toluene.
- WD-40 Multi-Use Product complies with VOC regulations for all 50 states.
- WD-40 Multi-Use Product is inherently biodegradable according to OECD Method 301
- Aerosol products are recyclable, just like any other empty steel container! Thousands of communities now include aerosol product recycling in both household residential and curbside buy-back and drop-off programs. The U.S. EPA recommends that all aerosol containers be recycled once they are empty.

