

# Solution 2577

(ALUMINUM CLEANER/CONDITIONER)

- ◆ Works Well In Hard or Soft Waters
- ◆ Excellent Wettability
- ◆ Apply by Spray, Foam or Immersion
- ◆ Compliments Most Paints
- ◆ Forms a Uniform Micro-etch
- ◆ Very Easily Rinsed

**Solution 2577** is a highly effective acidic liquid for removing process oils and oxide off aluminum and other non-ferrous metal surfaces including die-casts, extrusions, diamond plate and galvanize in one simple step. **Solution 2577** has an excellent surfactant package that is very effective in completely wetting out the part surface as well as ensuring a thorough rinse, which offers better corrosion protection. **Solution 2577** also offers a controlled etch rate that provides a uniformed micro-etched surface for painting, powder coating and/or further processing.

## TYPICAL PROPERTIES

Appearance	Amber Liquid
Foaming Ability	Moderate to High
Operating pH of Working Solution	< 2.5
Rinsing	Superior
Solubility	Excellent

## USING PROCEDURES

For most operations, **Solution 2577** should be used at 5% to 20% b/v. Consult your Win Solutions representative for the optimum operating concentrations.

## MATERIAL SAFETY

**Solution 2577** is safe when used as recommended. Consult your Win Solutions representative for instructions that best conform to your production needs.

## STORAGE

**Solution 2577** should be stored in a cool dry area. Store away from incompatible substances; see an issued MSDS.

## PRECAUTIONS:

**KEEP OUT OF THE REACH OF CHILDREN.** Please refer to the label and MSDS bulletins for all warnings, recommendations for safety equipment and other regulatory information.

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# Solution 2702SW

## CONCENTRATED ALKALINE CLEANER / DEGREASER

- ◆ Resists Clogging of Steam Coils
- ◆ Versatile Usage
- ◆ Easily Rinsed
- ◆ Effective On Most Soils

**Solution 2702SW** is a concentrated alkaline cleaner / degreaser designed to remove most all types of soils at economical usage-costs. Another important advantage of this product is that it uses an effective wetting and emulsification package that will eliminate the disadvantages usually associated with other alkaline cleaners. **Solution 2702SW** is very effective on cleaning heavy equipment such as off road construction equipment, fifth wheels, tires, or wherever heavy encrusted greasy soils are found. It can be used for a light duty paint stripper on some paints. **Solution 2702SW** can be used in soak tanks, steam cleaning operations, foam operations or gel operations.

### TYPICAL PROPERTIES

Appearance	Clear Purple Liquid
pH	> 12 (undiluted)
Solubility	Immediate
Specific gravity	1.07 (water = 1.0)

### USING PROCEDURES

Light Soil – Dilute 4 oz./gal. or 31mL/L (1:32) with water.  
Moderate Soil – Dilute 8 oz./gal. or 63mL/L (1:16) with water.  
Heavy Soil – Dilute 13 oz./gal. or 100mL/L (1:10) with water.  
Very Heavy Soil – Dilute 26 oz./gal. or 200mL/L (1:5) with water.  
Consult your Win Solutions representative for the optimum operating concentrations.

### MATERIAL SAFETY

**Solution 2702SW** is safe on stainless, brass, copper, steel, and magnesium. Test for safety on tin, zinc, aluminum, galvanized or painted surfaces.

### STORAGE

**Solution 2702SW** is stored in a cool dry place.

### SAFETY

Please refer to the product label and Material Safety Data Sheets for all warnings, recommendations and other regulatory information. Copies of the Material Safety Data Sheets are available from Win Solutions offices or your local representative.

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# Solution 4500SW

(ALUMINUM CLEANER/CONDITIONER & DeSMUTTER)

- ◆ Excellent Weld Smut Remover
- ◆ Excellent Wettability
- ◆ Apply by Spray, Foam or Immersion
- ◆ Compliments Most Paints
- ◆ Forms a Uniform Micro-etch
- ◆ Very Easily Rinsed

**Solution 4500SW** is a highly effective acidic liquid for removing process oils, oxide and weld smut off aluminum and other non-ferrous metal surfaces including die-casts, extrusions, diamond plate and galvanize also excellent in removing weld smut from stainless steel surfaces in one simple step. **Solution 4500SW** has an excellent surfactant package that is very effective in completely wetting out the part surface as well as ensuring a thorough rinse, which offers better corrosion protection. **Solution 4500SW** also offers a controlled etch rate that provides a uniformed micro-etched surface for painting, powder coating and/or further processing.

## TYPICAL PROPERTIES

Appearance	Amber Liquid
Foaming Ability	Moderate to High
Operating pH of Working Solution	< 2.5
Rinsing	Superior
Solubility	Excellent

## USING PROCEDURES

For most operations, **Solution 4500SW** should be used at 5% to 25% b/v. Consult your Win Solutions representative for the optimum operating concentrations.

## MATERIAL SAFETY

**Solution 4500SW** is safe when used as recommended. Consult your Win Solutions representative for instructions that best conform to your production needs.

## STORAGE

**Solution 4500SW** should be stored in a cool dry area. Store away from incompatible substances; see an issued MSDS.

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# Solution 2266SW

(No Rinse Cleaner / Iron Phosphate for Spray Wand Applications)

◆ Works Well In All Spray Wand Operations

◆ High Foaming

◆ Cleans Light to Medium Soils

◆ Easy To Use Liquid

**Solution 2266SW** is a premium formulated no rinse Cleaner / Iron Phosphate and paint pre-treatment for most metals designed for hot water spray wand operations. It will produce a tight bonded iron phosphate conversion coating on steel and iron parts while cleaning and slightly etching zinc, galvanized and aluminum parts. **Solution 2266SW** is easily injected into the high pressure stream and is instantly soluble. **Solution 2266SW** will clean light to medium shop soils, drawing compounds, rust preventers, and water soluble machining fluids. Typical dwell times will vary depending on the severity of the soils and types of metals to be cleaned. Typical temperatures during application range from 160 °F to 200 °F.

## TYPICAL PROPERTIES

Appearance	Amber Liquid
Foaming Ability	Controlled (low)
pH of 1% Solution	≤ 3.2
pH of Undiluted	≤ 3
Rinsing	Superior
Solubility	Excellent
Specific Gravity	1.07 - 1.09 (water = 1.0)

## USING PROCEDURES

**Solution 2266SW** is recommended for use at concentrations between 1-1.5%. For concentrations exceeding 3%, or when washing non-ferrous metals a water rinse is suggested. Consult your Win Solutions representative for the optimum operating concentrations.

## MATERIAL SAFETY

**Solution 2266SW** is safe as an iron phosphatizer and paint-pretreatment for most metals.

## SAFETY

Please refer to the label and Material Safety Data Sheets for all warnings, recommendations and other regulatory information. Copies of the Material Safety Data Sheets are available from the Win Solutions office or your local representative.

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# TG-70SW

**(No Rinse Cleaner / Iron Phosphatizer for High Pressure Spray Wands)**

◆ Works Well In Most Spray Wands

◆ Medium Foaming

◆ Cleans Medium to Heavy-duty Soils

◆ Easy To Use Liquid

**TG-70SW** is a premium formulated no rinse cleaner / iron phosphatizer and paint pre-treatment for most metals in high-pressure wand applications. It will produce a tight bonded iron phosphate conversion coating on steel and iron parts while cleaning and slightly etching zinc, galvanized and aluminum parts. **TG-70SW** is easily injected into the high-pressure stream and is instantly soluble. **TG-70SW** will clean medium to heavy-duty shop soils, drawing compounds; rust prevents, and water soluble machining fluids. Typical dwell times will vary depending on the severity of the soils and types of metals to be cleaned. Typical temperatures during application range from 160 °F to 200 °F.

## TYPICAL PROPERTIES

Appearance	Clear To Yellow Liquid
Foaming Ability	Controlled (low)
pH of 1% Solution	>3.0
Solubility	Excellent
Specific Gravity	1.208 (water = 1.0)

## USING PROCEDURES

**TG-70SW** is recommended for use at concentrations between 1-2%. **TG-70SW** can be applied at 3-5% followed by a thorough rinse. Consult your Win Solutions representative for the optimum operating concentrations.

## MATERIAL SAFETY

**TG-70SW** is safe as an iron phosphatizer and paint-pretreatment for most metals.

## STORAGE

**TG-70SW** is stored in a cool dry area. Store away from incompatible substances; see an issued MSDS.

## SAFETY

Please refer to the label and Material Safety Data Sheets for all warnings, recommendations and other regulatory information. Copies of the Material Safety Data Sheets are available from the Win Solutions office or your local representative.

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# TG-71SW

(No Rinse Cleaner / Iron Phosphate for Spray Wand Applications)

◆ Works Well In All Spray Wand Operations

◆ High Foaming

◆ Cleans Light to Medium Soils

◆ Easy To Use Liquid

**TG-71SW** is a premium formulated no rinse Cleaner / Iron Phosphate and pre-treatment for most metals designed for hot water spray wand operations prior to painting and/or powder coating. It will produce a tight bonded iron phosphate conversion coating on steel and iron parts while cleaning and etching zinc, galvanized and aluminum parts. **TG-71SW** is easily injected into the high pressure stream and is instantly soluble. **TG-71SW** will clean light to medium shop soils, drawing compounds, rust preventers, and water soluble machining fluids. Typical dwell times will vary depending on the severity of the soils and types of metals to be cleaned. Typical temperatures during application range from 140 °F to 200 °F.

## TYPICAL PROPERTIES

Appearance	Amber Liquid
Foaming Ability	Controlled (low)
pH of 1% Solution	≤ 5.0
pH of Undiluted	≥ 3.8
Rinsing	Superior
Solubility	Excellent
Specific Gravity	1.07 - 1.09 (water = 1.0)

## USING PROCEDURES

**TG-71SW** is recommended for use at concentrations between 1-1.5%. For concentrations exceeding 3%, or when washing non-ferrous metals a water rinse is suggested. Consult your Win Solutions representative for the optimum operating concentrations.

## MATERIAL SAFETY

**TG-71SW** is safe as an iron phosphatizer and paint-pretreatment for most metals.

## SAFETY

Please refer to the label and Safety Data Sheets for all warnings, recommendations and other regulatory information. Copies of the Safety Data Sheets are available from the Win Solutions office or your local representative.

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# WinKlean 2330HD

(Heavy-Duty Alkaline Ferrous Metal Spray Wash Cleaner)

◆ Performs at Higher pH Ranges

◆ Excellent Wetting

◆ Low to No Foam

◆ Ferrous Metal Safe

**WinKlean 2330HD** is a Heavy-Duty alkaline spray wash cleaner for ferrous metals prior to painting, rust inhibiting, or other finishing processes. Highly fortified with detergents and powerful wetters, **WinKlean 2330HD** removes most straight metalworking fluids, honing oils, rust inhibitors and other fabrication compounds. **WinKlean 2330HD** provides an optimum surface preparation for metal to facilitate efficient conversion and deposition treatment processes. **WinKlean 2330HD** has been used as a workhorse in many spray wash operations and has out performed its expectations time after time.

## TYPICAL PROPERTIES

**Appearance**

**Clear Yellow to Straw Liquid**

**Foaming**

**Low (controlled)**

**pH of 1% Solution**

**≤ 12**

**Solubility**

**Immediate**

**Specific gravity**

**1.23 – 1.26 (water = 1.0)**

## USING PROCEDURES

**WinKlean 2330HD** can be used at concentrations from 1 - 15% depending on the soil load. Consult your Win Solutions Representative for specific application instructions that best conform to your production needs.

## MATERIAL SAFETY

**WinKlean 2330HD** is safe on most plastic, ferrous and nonferrous metals.

## STORAGE

**WinKlean 2330HD** should be stored in a cool dry place. If accidentally frozen; thaw and then roll drum to remix.

## SAFETY

**KEEP OUT OF THE REACH OF CHILDREN.** Please refer to the product label and Material Safety Data Sheets for all warnings, recommendations and other regulatory information. Copies of the Material Safety Data Sheets are available from the Win Solutions office or local representative.

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# WinKote 3380ZC

(Spray Wash Zirconium Cleaner Coater)

- ◆ Works Well In Two or More Stage Washers
- ◆ Low Foaming
- ◆ Will Produce Good Coating Weights
- ◆ Easy To Use Liquid

**WinKote 3380ZC** is a premium formulated cleaner/coater and paint pre-treatment for most ferrous metals. It will produce a tight bonded Zirconium conversion coating on most ferrous metals. **WinKote 3380ZC** will provide excellent coating weights and help increase paint adhesion. Typical dwell times will vary depending on the coating weights being sought. Typical temperatures during application range from ambient to 140 ° F.

## TYPICAL PROPERTIES

Appearance	Clear Liquid
Foaming Ability	Controlled (low)
Operating pH	4.5 – 5.8
Rinsing	Superior
Solubility	Excellent
Specific Gravity	1.15 (water = 1.0)

## USING PROCEDURES

**WinKote 3380ZC** is recommended for use at concentrations between 3%- 5% (b/v). **Charging Instructions:** Charge tanks at 3% - 4% b/v, adjust pH to 3.5 – 5.0 using Ammonium Hydroxide (NaOH can be used but will create much more sludge), maintain tank at 3% - 4% utilizing the WinKote 3380ZC concentrate. **If aluminum or galvanize are the only substrates being processed through the washer then the pH does not have to be adjusted up to the 3.5 – 5.0 ranges.**

## MATERIAL SAFETY

**WinKote 3380ZC** is safe as a conversion coating and paint-pretreatment for most ferrous metals.

## STORAGE

**WinKote 3380ZC** is stored in a cool dry area. Store away from incompatible substances; see an issued MSDS.

## SAFETY

Please refer to the label and Material Safety Data Sheets for all warnings, recommendations and other regulatory information. Copies of the Material Safety Data Sheets are available from the Win Solutions office or your local representative.

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# WinKlean 6502RP

(NO RINSE SPRAY WASH CLEANER/RP)

◆ Performs at Medium pH Ranges

◆ Excellent Wetting

◆ Low to No Foam

◆ Multi-Metal Safe

**WinKlean 6502RP** is a light to medium duty, phosphate free, low alkaline no rinse spray wash cleaner rust preventative for ferrous and nonferrous metals in 1 or more stage washers prior to painting, powder coating or other finishing processes. Highly fortified with detergents, wetters, builders and rust inhibitors, **WinKlean 6502RP** was designed specifically to remove light to medium mill oils and cutting fluids at ambient to low temperatures. However it has been used in various other applications and does an exceptional job on all substrates. **WinKlean 6502RP** provides an optimum surface preparation for metal to facilitate efficient paint and/or powder adhesion as well as conversion and deposition treatment processes and will also provide up to 30 days indoor rust protection on parts waiting to be processed through their specific finishing system.

## TYPICAL PROPERTIES

**Appearance**

**Clear Yellow to Hazy Liquid**

**pH @ 1%**

**9.0-9.5**

**Foaming**

**Low (controlled)**

**Solubility**

**Immediate**

**Specific gravity**

**1.05 –1.06 (water = 1.0)**

## USING PROCEDURES:

**WinKlean 6502RP** can be used at concentrations from 1% -5 % depending on the soil load. Consult your Win Solutions Representative for specific applications.

## MATERIAL SAFETY:

**WinKlean 6502RP** is safe on most plastic, ferrous and nonferrous metals. **STORAGE:** **WinKlean 6502RP** should be stored in a cool dry place. If accidentally frozen; thaw and remix.

## SAFETY:

**KEEP OUT OF THE REACH OF CHILDREN.** Please refer to the product label and Material Safety Data Sheets for all warnings, recommendations and other regulatory information. Copies of the Material Safety Data Sheets are available from the Win Solutions office or local representative.

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# WinKlean 6502RPSW

(NO RINSE SPRAY WAND CLEANER/RP)

◆ Performs at Medium pH Ranges

◆ Excellent Wetting

◆ No Rinse Formula

◆ Multi-Metal Safe

**WinKlean 6502RPSW** is a light to medium duty high pressure no rinse spray wand cleaner rust preventative for ferrous and nonferrous metals prior to painting, powder coating and/or other finishing processes. Highly fortified with detergents and wetters, **WinKlean 6502RPSW** was designed specifically to remove light mill oils and cutting fluids while providing 2 to 5 days indoor rust protection. However, it has been used in various other applications and does an exceptional job on all substrates. **WinKlean 6502RPSW** provides an optimum surface preparation for metal to facilitate efficient paint adhesion as well as conversion and deposition treatment processes.

## TYPICAL PROPERTIES

Appearance

Clear Yellow to Hazy Liquid

Foaming

Medium to High

Solubility

Immediate

Specific gravity

1.05 –1.06 (water = 1.0)

## USING PROCEDURES

**WinKlean 6502RPSW** can be used at concentrations from 1% - 3 % depending on the soil load. If used in an immersion system 3% - 5%. Consult your Win Solutions Representative for specific application instructions that best conform to your production needs.

## MATERIAL SAFETY

**WinKlean 6502RPSW** is safe on most plastic, ferrous and nonferrous metals.

## STORAGE

**WinKlean 6502RPSW** should be stored in a cool dry place. If accidentally frozen; thaw and remix.

## SAFETY

**KEEP OUT OF THE REACH OF CHILDREN.** Please refer to the product label and Material Safety Data Sheets for all warnings, recommendations and other regulatory information. Copies of the Material Safety Data Sheets are available from the Win Solutions office or local representative.

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