



# Product Application & Results

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**PRODUCT: Ultraflex® Alkaline Base 031 Stock # UF031**

**Description:** High strength alkaline granular detergent base for a variety of cleaning applications. The high-tech builder combination provides an excellent base for Touchless cleaning as well as other tough cleaning tasks. This alkaline base is made into a standard solution using the “Clear Mix 55 – Drum Mixer” and should be combined with various Ultraflex® Blends for a variety of applications.

**Color:** Gray granular material      **Scent:** None

**Foaming Ability:** None

<b>Features</b>	=	<b>Benefits</b>
No Fillers	=	Fully active for full value.
Totally Dissolves	=	Mixes easily, allows dissolve two bags in each mix in the mixer.
Titratable	=	Quickly determine dilution ratio.
None-Phosphate chemistry	=	Eco-Friendly for use in any car wash market.

<u>Application</u>	<u>Dilution Ratios/ONE bag per mix cycle</u>		
	<u>Strongest</u>	<u>Weakest</u>	<u>Average</u>
High Pressure Cleaning & Prep guns	1:100	1:300	1:200
Low Pressure Presoak	1:20	1:50	1:35
Tire & Wheel Cleaner Application	1:5	1:20	1:10
Cool-down Arch	1:200	1:300	1:250

**If TWO bags are used per mix cycle in the mixer, dilution ratios above should be twice higher (multiplied by 2).**

CSI Clear Mix’55: Follow instructions on the mixer and add product only when the liquid is above the mixing blade. Allow the mixer to complete each cycle prior to adding the next bag and starting the next cycle. For BASE 031 you may add the contents of ONE or TWO bags into the mixer per mix cycle.

Solution of Alkaline Base 031 can be drawn direct from the mixer using checkhub and single tip configuration. Refer to application sheets of Ultraflex® Blends for ratios between Alkaline Base solution and Blends.

Required strength of product dilution will vary depending on cleaning conditions and type and condition of equipment used.

Normal clear PVC vinyl draw tubing (P20010002-100) should be used from the mixer to the point of dilution.

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**Guidelines for Application**

**Water Quality:** Use SOFT WATER for best performance! Hard water with hardness up to 15 grains can be used for making solution of Alkaline Base 031.

**Solution Temperatures:** Cleaning will improve if applied with warm (100°F) water. Warm water is especially recommended in colder weather. **Caution:** In Tire & Wheel Cleaner Application extremely hot wheels can be damaged by ANY cleaning product. In summer encourage customers to cool wheels before cleaning.

**Dwell time:** Allow a minimum of 30 seconds prior to following with either a high-pressure wash or high-pressure rinse.

**Economy:** Reduce volume through alternative nuzzling, equipment changes. Do-not over-heat dilution water as it wastes energy and can decrease product effectiveness.

**Special Instructions**

**Titration Chart/1 bag per mix cycle:**  
Use the chart below with “Alkaline Titration Test Kit” T-100A to determine dilution ratio.

**Titration Chart/2 bags per mix cycle:** Use the chart below with “High Alkaline Titration Test Kit” T-102K to determine dilution ratio.

<i>Titration Chart For Ultraflex<sup>®</sup> Alkaline Base 031/ 1 bag per mix cycle</i>	<i>Dilution</i>	<i>Drops</i>
This chart uses "Alkaline Titrant" and a water blank must be titrated and subtracted from your drops before comparing to this chart.  Sample size = 1 tube	1:20	46
	1:25	38
	1:30	32
	1:40	24
	1:50	20
	1:60	16
	1:70	14
	1:80	13
	1:90	12
	1:100	11
	1:110	10
	1:120	9
	1:130	8
1:150	7	

<i>Titration Chart For Ultraflex<sup>®</sup> Alkaline Base 031/ 2 bags per mix cycle</i>	<i>Dilution</i>	<i>Drops</i>
This chart uses "High Alkaline Titrant" and a water blank must be titrated and subtracted from your drops before comparing to this chart.  Sample size = 1 tube	1:16	25
	1:20	21
	1:22	19
	1:24	18
	1:30	15
	1:40	12
	1:50	10

Refer to Section 7 of Ultraflex<sup>®</sup> Installation Manual, Chapter “Measuring the Solution Strength in the Clear Mix Unit” if the strength of the Alkaline Base 031 solution is in doubt and should be tested.

**Viscosity – temperature relation.**

Viscosity of Alkaline Base 031 solution does not change significantly with temperature. Consequently, NO ADJUSTMENT of metering tips or pump setting is required to keep similar flow of product through metering devices.