



Chemical Systems

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Reg. No: CK2005/156636/23 VAT No: 4570227746

Technical Data Sheet

4 January 2010

Product:

FABconc-BZ-CLR

Description:

Fabric Softener liquid – Concentrate - CLEAR

This paste concentrate consists of Cationic Surfactants, Water Conditioners, Sterilizers, and Preservative. It dissolves in 15 minutes in cold water (+20° C) with vigorous agitation. Once fully dissolved; Add a Fragrance (see Notes below) and/or Dye of Choice to produce a finished Fabric Softener liquid comparable with industry standards.

Active Content: Cationic 80%

Recommended Dilutions:

- a. 1: 22.5(4%) - Economy Product
- b. 1:15.6 (6.0%) – Standard Product
- c. 1:12.5 (8%) - Premium Product

Form: Viscous Liquid

Colour: White, translucent

Odour: Typical

pH: 5.5 – 6.0

Viscosity: 8 000cps @ 25°C Brookfield RVT #3 Spindle @ 20 RPM

Packing: 20 Kg Bucket - Polypropylene
200 Kg Open top drum – High Density Polyethylene

Precautions: May cause irritation due to high concentration.

Handling: Non-Flammable. Keep containers closed to prevent ingress of water. Due to the highly concentrated nature of the product it is recommended that processing staff wear gloves, eye protection & respiration apparatus when handling the raw concentrate.



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Dilution Chart – Ecwamix FABconc-BZ-CLR - Fabric Softener

% Use		Economy		Standard		Premium	
Ratio		4.00%		6.00%		8.00%	
		1:22.5		1:15.7		1:12.5	
		Conc	Water	Conc	Water	Conc	Water
Batch Size that you wish to make (in Litres)	2	0.080	1.920	0.120	1.880	0.160	1.840
	5	0.200	4.800	0.300	4.700	0.400	4.600
	10	0.400	9.600	0.600	9.400	0.800	9.200
	20	0.800	19.200	1.200	18.800	1.600	18.400
	50	2.000	48.000	3.000	47.000	4.000	46.000
	100	4.000	96.000	6.000	94.000	8.000	92.000
	200	8.000	192.000	12.000	188.000	16.000	184.000
	250	10.000	240.000	15.000	235.000	20.000	230.000
	300	12.000	288.000	18.000	282.000	24.000	276.000
	500	20.000	480.000	30.000	470.000	40.000	460.000
	1000	40.000	960.000	60.000	940.000	80.000	920.000
2000	80.000	1920.000	120.000	1880.000	160.000	1840.000	
3000	120	2880.000	180.000	2820.000	240.000	2760.000	

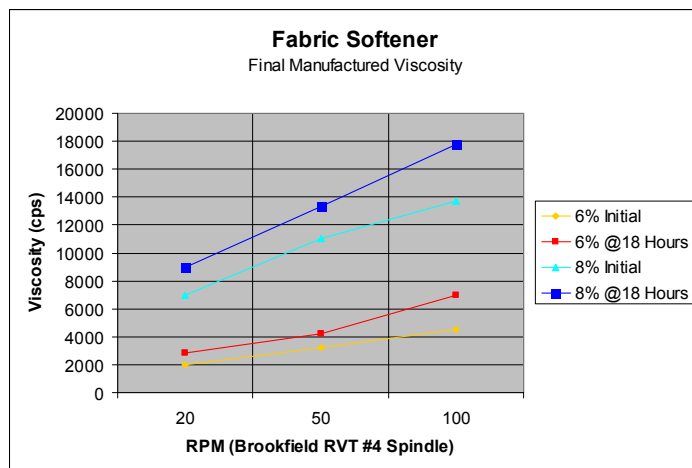
Directions for Use

Using the chart above, first decide on the size of the batch that you wish to make (Orange column). Now decide on the dilution (strength) of your finished product (Blue rows across the top). Let's assume you decide to make 200 Litres of **Standard** Fabric Softener at a strength of 1:15.7 (6.0%). If you look across from the number **200**, in the orange block, to the pink column under **1:15.7** you will see that you need **12Kg** of **Ecwamix FABconc-BZ-CLR**. The green column to its right tells you that you need **188 Litres** of water.

- Using your scale, weigh 12Kg of **Ecwamix FABconc-BZ-CLR** into a bucket.
- Fill the mixing tank with 188 Litres/Kg of cold Water (+- 20° C).
- Place your mixer in the mixing tank and start it running at a high speed.
- Now pour in the Ecwamix **Ecwamix FABconc-BZ-CLR**, scraping out as much from the bucket/s as possible. Leave the mixer running for 5-10 minutes.
- OPTIONAL:** Add Fragrance(with more BASE NOTE – See notes below) and/or Dye of Choice

Congratulations, you have just manufactured your first batch of Fabric Softener!

Finished Product – Viscosity Analysis



A Fabric softener functions with a very low active content. It is so low that it usually does not contribute any viscosity to the product. Since a consumer is unlikely to purchase a 'watery' product, most Fabric Softeners usually contain a far higher level of active matter, just to give the product some 'body'. This practice makes it difficult to formulate an economical product that has the same 'body'. Our product incorporates an auxiliary thickener to ensure that your end product will always appeal to your consumer. **Another technical requirement is that of the Fragrance system. Most manufacturers of economy Fabric Softeners simply choose the cheapest fragrance**

available, it may have a good 'Top Note', but it will cease to be noticeable long before the laundry has even dried! **THUS, use a specially formulated Fragrance that has more 'Base Note', although more expensive, it satisfies consumer demand for "Clean Smelling" laundry.**

Disclaimer / Non-warranty

This product has been subjected to limited stability tests and has been shown to perform well. However formulators should establish their own long term stability and functionality tests. The information contained herein is to our best knowledge true and accurate, but since the conditions of use are beyond our control, **Ecwamix Chemical Systems**. Disclaims any liability in connection with the use of this product and/or information. Warranty extends only as far as to the replacement of material shipped if not compliant with the specification as set out in the attached "Certificate of Analysis" and within the expiry period of the said product. All recommendations or suggestions are made without guarantee. It is good practice to conduct one's own safety/stability tests on all final Formulations prior to marketing.

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