

Freshwater Tissue Company

Average Chemical usage during Evergreen 2008 operation - TCF Bleached Pulp Production

Chemical	Units	Daily Usage	Use	Storage
Hydrogen Peroxide (50%)	Gal/d	11,700	Bleaching	Bulk Tank
Caustic Soda	Gal/d	8,500	Bleaching, MH5, Scrubber, Demin water	Bulk Tank
Peroxide Stabilizer	Gal/d	130	Bleaching	Bulk Tank
Chelant	Gal/d	720	Bleaching	Bulk Tank
Magnesium Sulfate	Gal/d	900	Bleaching	Bulk Tank
Sulfuric Acid	Gal/d	1,650	Bleaching, MH5, Machine room, Demin W	Bulk Tank
Defoamer PP05-3416	Gal/d	86	Brown Stock	Bulk Tank
Talc	Lbs./D	4,700	Brown stock	2350# Bag
Sulfur	Gal/d	<1	Recaust - Chemical balance	Bulk Tank
Lime	t/day	6	Recaust - Chemical makeup	Bulk Tank
Cortrol (oxygen scavenger)	Gal/d	2	Boiler Feedwater chemical	Bulk Tank
Steammate (Condensate system Protection)	Gal/d	2	Boiler Feedwater chemical	Bulk Tank
Optisperse(Boiler water treatment)	Gal/d	5	Boiler Feedwater chemical	Bulk Tank
Nalkleen 2626 (Felt Conditioner)	Gal/d	2	Machine room	Tote
Nalcon 7648 (white water system biocide)	Gal/d	2	Machine room	Tote
Dewatering Aid	Gal/d	2	Recaust	Tote
Settling aid	Gal/d	2	Recaust	Tote
Klairaid (polymer)		Various	Raw water Treatment - Winter only	Bulk Tank
Polyfloc AE1115P	Gal/d	<1	Raw water Treatment	Tote
Sodium Hypochlorite		<1	Raw water Treatment	Bulk Tank
Hydrochloric Acid (Muratic)		Various	Washer cleaning as needed	Bulk Tank
Nitric Acid 630 lb. Drums		Various	Liquor heater cleaning as needed	Drum
Sulfamic Acid		Various	Filter cleaning as needed	Bag