SAFT JACKSONVILLE ESTIMATED CHEMICAL USAGE

Basis: max cell production 24/7

Assumes that coating runs at 10 meters/min 24 hr/day, 365 days/yr

Scenario: **All 45E**

Total **5,250,000** Cells Per Time Period **(1 year)**

Chemical Requirements

Chemical	Where Used	Usage per Time Period (kg)	Usage per day (kg)
PVDF (Powder) (kg)	Positive Mix	103,838	433
XE2 (Powder) (kg)	Positive Mix	57,696	240
Lithium Nickel Oxide (Powder) (kg)	Positive Mix	2,146,154	8,942
WATER, DE IONIZED (Liquid) (kg)	Negative Mix	2,859,044	11,913
COPOLYMER, SBR (Liquid) (kg)	Negative Mix	65,162	272
CMC 1 Polymer (Powder) (kg)	Negative Mix	33,238	138
BF 15 SP - Carbon (Powder) (kg)	Negative Mix	1,262,828	5,262
NMP (Solvent) (kg)	Pos Mix	1,777,731	7,407

Chemical	Where Used	Usage per Time Period (L)	Usage per Time Period (kg)	Usage per Day (L)	Usage per Day (kg)
Electrolyte	Cell Filling	966298	1207873	4026	5033

Basis: Estimated annual production

Scenario: **All 45E**

Total **1,600,000** Cells Per Time Period **1 year**

Chemical Requirements

Chemical	Where Used	Usage per Time Period (kg)	Usage per day (kg)
PVDF (Powder) (kg)	Positive Mix	31,646	132
XE2 (Powder) (kg)	Positive Mix	17,583	73
Lithium Nickel Oxide (Powder) (kg)	Positive Mix	654,066	2,725
WATER, DE IONIZED (Liquid) (kg)	Negative Mix	871,328	3,631
COPOLYMER, SBR (Liquid) (kg)	Negative Mix	19,859	83
CMC 1 Polymer (Powder) (kg)	Negative Mix	10,130	42
BF 15 SP - Carbon (Powder) (kg)	Negative Mix	384,862	1,604
NMP (Solvent) (kg)	Pos Mix	541,785	2,257

Chemical	Where Used	Usage per Time Period (L)	Usage per Time Period (kg)	Usage per Day (L)	Usage per Day (kg)
Electrolyte	Cell Filling	294491	368114	1227	1534