Estimated Chemicals Usage for Oak Ridge Winding Facility
Annual estimate for highest usage year
Assumes maximum usage at 10% of ABL Commercial Plant Facility

Assumptions:

12100	total parts (including startup and scrap)
42	months performance
412	max parts per month (incl scrap)
288	avg part/mo
30	parts per month analyzed

Part Number	Description	Use	Hazard Cat.	Supplier	Total Est Peak Annual Consumption	Units	% VOC emitted	Total Est Peak Annual Vapor Emissions	Units	Notes
TT-I-735A	IPA Alcohol, Isopropyl, FED TT-I-735A *C* (I06)	mandrel prep	Haz/Flam	Industrial Supply'	395.3	lb	8.5	336.0	lb	volumetric consumption like QED; % emitted higher than 700NC
TT-I-735A	IPA Alcohol, Isopropyl, FED TT-I-735A *C* (I06) (0.6 gal/part)	cleaning station	Haz/Flam	Industrial Supply'	296.6	gal	8.0	1552.6	lb	
S283214-002	QED, Paraffin Hydrocarbon Solvent	not projected to be used at ABL	Haz/Flam	Ecolink Inc.	0.0	gal	10.0	0.0		
	Dynasolve: Cleaner, Low-Tpxcotu (Dynasolve M35)	winding	Non/Haz	Dynaloy	123.6	gal	0.1	12.4	lb	solvent recovery; with 95% recovery; est 1% volatilizes
	Tank rinse water (30 gal batch, 2 parts per batch)	winding			7416.0	gal	0.0	0.0		
	3 in 1 Oil	winding	Non/Haz	WD-40 Company	480.0	oz	0.0	0.0		
	Deionized Water (4 gal/part)	cleaning station	Non/Haz		1977.6	gal	0.0	0.0		
	Joy soap (2 tbsp per part)	cleaning station	Non/Haz	Procter and Gambler	7.7	gal	0.0	0.0		
EA9330	EA9330 Adh. Resin (Rework only)	rework area	Non/Haz	Henkel	480.0	oz	0.0	0.0		
EPON 862	Epoxy Resin	winding	Non/Haz	Hexion Specialty Chemicals	35996.6	lb	0.0	0.0		note: resin components will likely change
Epicure K8146	Epoxy Hardener	winding	Non/Haz	Hexion Specialty Chemicals	9503.2	lb	0.0	0.0		note: resin components will likely change
	Release, Frekote 700NC TX08	winding	Haz/Flam	Henkel	217.8	lb	7.5	163.3	lb	based on test at Clfd
	The following materials are used as needed to support operations. They do not have a "One to One" MBOM requirement.									
	Acetone: Acetone, Grade, Reagent (HIGH Val P/N High acetone PL)		Haz/Flam	Anachenia Canada	tbd, will assess					
FK150B04	B-15 Sealant: Sealer Tool, FK150B04	1st time mandrel conditioning	Haz/Flam	Hysol Dexter	0.5	gal	9.7	3.2	lb	
	321 Dry Lube: Lubricant, Bonded, MolyKote 321 (Aerosol)		Haz/Flam	Dow Corning	tbd, will assess					
TR-104	Mold Release,Release, Mold, TR-104 HI Temp.	1st time mandrel conditioning	Haz/Flam	TR Ind.	1.5	lb	7.0	1.1	lb	

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