



Table of Physical Properties

Cleaning Degreasing		Versatill®									
		Light Duty				Medium Duty			Heavy Duty		
Properties	Unit	P	PE	L	LE	LC	LCa	SG35i	QP	QPi	SG65i
Consist of		HFE	HFE, AOH	HFE	HFE, AOH	tDCE, HFE	tDCE, HFE, AOH	tDCE, HFC AOH	tDCE, HFE	tDCE, HFE, AOH	tDCE, HFC AOH
Boiling Point	°C	93	91	51	50	39	38	36	48	48	36
Flammability	°C	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
Vapor Pressure	kPA	9	12	36	38	51	53	67	47	45	67
Heat of Vaporization	kJ/kg	122	132	172	175	192	205	254	235	240	254
Liquid Density	g/cm ³	1.53	1.49	1.38	1.32	1.32	1.31	1.22	1.29	1.26	1.22
Viscosity	cSt	0.43	0.43	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32
Specific Heat	J/kg-K	1230	1190	1333	1260	1310	1302	1310	1085	1072	1310
Surface Tension	mN/m	13.7	12	15	13.2	15.1	16.2	18	19	19	18
Kauri-butanol value	Kb	10	12	10	12	33	38	38	109	108	77
Dielectric Strength	kV	>25	>15	>25	>15	>25	>25	>25	>35	>35	>25
Global Warm. Potential	GWP	61	57	27	25	13	12	145	3	3	275
Ozone Depl. Potential	ODP	0	0	0	0	0	0	0	0	0	0
Exposure Guidelines	ppm	200	200	500	500	>200	>200	>200	200	200	>200

Not for specification purposes. All values usually @ 25°C Values gathered from public sources or calculated based on available data.

GWP-100 year ITH, CO₂ = 1.0 Trademarks are the property of their respective owners.

HFE – Hydrofluoroether, tDCE – trans-1,2-dichloroethylene, AOH – Alcohol, HFC – Hydrofluorocarbon, NF – nonflammable

Table of Material Interactions

Cleaning Degreasing		Versatill®									
		Light Duty				Medium Duty			Heavy Duty		
Material Interaction		P	PE	L	LE	LC	LCa	SG35i	QP	QPi	SG65i
Soils Removed	Light Oils	O	O	O	O	O	O	O	O	O	O
	Medium Oils	/	/	/	/	O	O	O	O	O	O
	Fluoro Lubes	O	O	O	O	O	O	/	/	/	/
	Particulates	O	O	O	O	O	O	O	/	/	O
	Ionic Soils	/	O	/	O	O	O	O	/	O	O
	Greases	/	/	/	/	O	O	O	O	O	O
	Fluoro Greases	O	O	O	O	O	O	O	/	/	O
	Silicones	/	/	/	/	O	O	O	O	O	O
	Fluoro Silicones	/	/	O	/	O	O	/	/	O	/
	Flux	/	/	/	/	O	O	O	O	O	O
	Wax	/	/	/	/	O	O	O	O	O	O
Solubility	Fluorocarbon	H	H	H	H	M	M	M	L	L	L
	Hydrocarbon	M	M	M	M	H	H	H	H	H	H
	Silicone	L	L	L	L	M	M	M	H	H	H
Compatibility	Plastics	Requires Individual Testing				Requires Testing			Requires Individual Testing		
	Acrylics, ABS, Polycarbonate	H	H	H	H	NC	NC	NC	NC	NC	NC
	PTFE, PEEK, Nylon, epoxy	H	H	H	H	H	H	H	H	H	H
	Silicon	M	M	M	M	L	L	M	L	L	L
	Ceramics	H	H	H	H	H	H	H	H	H	H
	Metals	H	H	H	H	H	H	H	H	H	H

O – Yes, / – No, H – High, M – Medium, L – Low, NC – Not Compatible



Table of Uses and Applications

Cleaning Degreasing		Versatill®									
		Light Duty				Medium Duty			Heavy Duty		
Uses and Applications		P	PE	L	LE	LC	LCa	SG35i	QP	QPi	SG65i
Replacement for	CFCs	•	•	•	•	•	•	•	•	•	•
	HCFCs	•	•	•	•	•	•	•	•	•	•
	HFCs	•	•	•	•	•	•		•	•	
	TCEs					•	•	•	•	•	•
	HFES							•			•
	nPB					•	•	•	•	•	•
	Aqueous	•	•	•	•	•	•	•	•	•	•
Applications	Co-Solvent	•	•	•	•						
	Vapor Degreasing	•	•	•	•	•	•	•	•	•	•
	Immersion	•	•	•	•	•	•	•	•	•	•
	Hand-Wipe	•	•	•	•	•	•	•	•	•	•
	Spray Aerosol	•	•	•	•	•	•	•	•	•	•

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