Cleaning Degreasing		Light Duty				Medium Duty			Heavy Duty								
		Versatill®				Versatill®			Versatill®				FLO™		Solvon®		
Properties	Unit	P	PE	L	LE	LC	LCa	SG35i	QP	QPi	RS	RSt	ZT	ZTe	PB	IP	AER
Consist of		HFE	HFE, Alcohol	HFE	HFE, Alcohol	tDCE, HFE	tDCE, HFE, Alcohol	tDCE, HFC Alcohol	tDCE, HFE	tDCE, HFE, Alcoh	tDCE, HFO	tDCE, HFO	tDCE, HFC	tDCE, HFC, Alcoho	nPB	nPB, Alcoho l	nPB
Boiling Point	°C	**93**	**91**	**51**	**50**	**39**	**38**	**36**	**48**	**48**	**47**	**47**	**46**	**45**	**70**	**68**	**71**
Flash Point	°C	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Vapor Pressure	kPA	9	12	36	38	51	53	67	47	45	49	48	46	47.5	14.7	14.4	14.1
Heat of Vaporization	kJ/kg	122	132	172	175	192	205	254	235	240	235	239	271	279	246	246	246
Liquid Density	g/cm³	1.53	1.49	1.38	1.32	1.32	1.31	1.22	1.29	1.26	1.28	1.29	1.28	1.26	1.32	1.23	1.33
Kinematic Viscosity	cSt	0.43	0.43	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.37	0.37	0.37
Specific Heat	J/kg-K	1230	1190	1333	1260	1310	1302	1310	1085	1072	1095	1150	1090	1125	1130	1130	1130
Surface Tension	mN/m	13.7	12	15	13.2	15.1	16.2	18	19	19	20	20	21	21	24	21	24
Kauri-butanol value	Kb	**10**	**12**	**10**	**12**	**33**	**38**	**38**	**109**	**108**	**110**	**106**	**106**	**119**	**125**	**150**	**125**
Dielectric Strength	kV	>25	>15	>25	>15	>25	>25	>25	>35	>35	>35	>35	>35	>35	>25	>25	>25
Global Warming Potential	GWP	**61**	**57**	**27**	**25**	**13**	**12**	**145**	**3**	**3**	**3**	**4**	**24**	**24**	**0.5**	**0.5**	**0.5**
Ozone Depletion Potential	ODP	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0049	0.0042	0.0049
Exposure Guidelines	ppm	200	200	500	500	>200	>200	>200	200	200	200	200	194	190	25	25	25
Replacement for	CFCs	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	HCFCs	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	HFCs	●	●	●	●	●	●		●	●	●	●			●	●	●
	TCEs					●	●	●	●	●	●	●	●	●	●	●	●
	HFEs							●			●	●	●	●	●	●	●
	nPB					●	●	●	●	●	●	●	●	●			
	Aqueous	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Effectively Removes Soils	Light Oils	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Medium Oils					●	●	●	●	●	●	●	●	●	●	●	●
	Fluoro Lubes	●	●	●	●	●	●										
	Particulates	●	●	●	●	●	●	●				●			●	●	●
	Ionic Soils		●		●		●	●		●				●		●	
	Greases					●	●	●	●	●	●	●	●	●	●	●	●
	Fluoro Greases	●	●	●	●	●	●	●				●					
	Silicones					●	●	●	●	●	●	●	●	●	●	●	●
	Fluoro Silicones					●	●			●			●				
	Flux					●	●	●	●	●	●	●	●	●	●	●	●

Cleaning Degreasing		Light Duty				Medium Duty			Heavy Duty								
		Versatill®				Versatill®			Versatill®				FLO™		Solvon®		
Properties	Unit	P	PE	L	LE	LC	LCa	SG35i	QP	QPi	RS	RSt	ZT	ZTe	PB	IP	AER
	Wax					●	●	●	●	●	●	●	●	●	●	●	●
Solubility	Fluorocarbon	High	High	High	High	Mediu	Medium	Mediu	Low	Low	Low	Low	Low	Low	Low	Low	Low
	Hydrocarbon	Med.	Med.	Med.	Med.	High	High	High	High	High	High	High	High	High	High	High	High
	Silicone	Low	Low	Low	Low	Med.	Med.	Med.	High	High	High	High	High	High	High	High	High
Compatibility	**Plastics**	Requires Individual Testing				Requires Individual Testing			Requires Individual Testing						Requires Individual		
	Acrylics, ABS,	High	High	High	High	None	None	None	None	None	None	None	None	None	None	None	None
	PTFE, PEEK, Nylon, epoxy	High	High	High	High	High	High	High	High	High	High	High	High	High	High	High	High
	Silicon	Med.	Med.	Med.	Med.	Low	Low	Med.	Low	Low	Low	Low	Low	Low	Low	Low	Low
	Ceramics	High	High	High	High	High	High	High	High	High	High	High	High	High	High	High	High
	Metals	High	High	High	High	High	High	High	High	High	High	High	High	High	High	High	High
Percision Cleaning Application	Co-Solvent	●	●	●	●												
	Vapor Degreasing	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●
	Immersion	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Hand-Wipe	●	●	●	●	●	●	●	●	●	●	●	●	●			
	Spray Cleaning	●	●	●	●	●	●	●	●	●	●	●	●	●			

Not for specification purposes. All values @ 25°C unless otherwise specified.

Values gathered from public sources or calculated based on available data.

GWP-100 year ITH, CO_2 = 1.0

Trade marks are the property of their respective owners.