



PPG TrueFinish® Solvent Properties

Q-CODE	NAME or TFS CODE	ALIAS	% ORGANIC HAPS (VHAP) ¹	DENSITY or WT/GAL ²	FLASH POINT ³ (IN DEG F.)	EVAPORATION RATE ⁴	SOLVENT STRENGTH ⁵	RESTIVITY/ POLARITY (MEGOHMS) ⁶	FLOW RATING ⁷	DESCRIPTION and COMMENTS
Alcohols										
Q20	Isopropanol	Isopropyl Alcohol	0%	6.56	53	1.70	NA	0.05	1	A very fast evaporating alcohol solvent that is used as a component in lacquer thinner blends and is HAPS compliant. Can be used to remove mould release from plastic parts.
Q164	Methanol	Methyl Alcohol	100%	6.60	52	3.50	NA	0.05	1	An extremely fast evaporating alcohol solvent that is used as a component in lacquer thinner blends.
Ketone Solvents										
Q30	Acetone CP	Acetone	0%	6.58	4	7.70	NA	0.01	1	Acetone is a very fast evaporating ketone with strong solvent strength. It can be used by itself as a VOC compliant solvent or in a blend to reduce viscosities of most polymers. Be aware that acetone is hygroscopic and can bring water into a coating.
Q60	Methyl Ethyl Ketone	MEK	0%	6.71	21	4.60	NA	0.05	2	MEK is a polar solvent that can be used by itself or as a blend to reduce most polymers. It has a fast to moderate evaporation rate.
Q75	Methyl Isobutyl Ketone	MIBK	99.96%	6.70	60	1.60	NA	0.22	5	MIBK is a moderate evaporating ketone solvent that can be used by itself or a component in blends to reduce most polymers. It has a moderate evaporation rate.
Q70	Methyl Amyl Ketone	MAK	0%	6.80	102	0.40	NA	0.70	8	MAK is a slow evaporating ketone solvent used to retard the evaporation rate of coatings. It can be used by itself in small quantities or in blends as a tail solvent to help with flow & leveling.
Aliphatic Hydrocarbons										
Q151	VM&P Naptha	Naptha	0%	6.28	55	0.45	34	20.00	1	VM& P is a medium evaporating cycloaliphatic solvent used in alkyd enamels to lower film sagging and speed flash times.
Q100	Mineral Spirits	Paint Thinner	0%	6.50	104	0.12	37	20.00	8	Minerial Spirits (paint thinner) is a diluent used to thin alkyd enamels for flow and brushability.



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Aromatic Hydrocarbons										
Q90	Toluene	Toluol	99.94%	7.21	40	1.50	105	20.00	2	Toluene is a fast aromatic solvent used by itself or in blends to reduce the viscosity of most polymers. It will not redissolve most dried polymers but will soften them, therefore, it can be used to gain adhesion over old coatings without lifting.
Q80	Xylene	Xylol	100%	7.22	81	0.75	98	20.00	5	Xylene is a medium fast aromatic solvent used by itself or in blends to reduce the viscosity of most polymers. Like Toluene, it will not redissolve most dried polymers but will soften them, therefore, it can be used to gain adhesion over old coatings without lifting.
Q50	Solvesso 100	HI Sol 10 Shellsol A100 Hi flash Naptha Aromatic 100	4.51%	7.28	106	0.19	92	20.00	8	Solvesso 100 or High Flash Naptha has a solvent strength very similar to Toluene & Xylene with a much slower evaporation rate & much higher flash point. This is not to be confused with VM&P Naptha. Solvesso 100 contains five percent HAPS solvent.
Q160	Solvesso 150	Aromatic 150	9.90%	7.44	145	0.04	92	20	9	The Solvesso 150 or Aromatic 150 has a solvent strength very similar to Toluene & Xylene with a slower evaporation rate & higher flash point than the Solvesso 100.
Acetate Esters										
Q10	n-Butyl Acetate Urethane Grade	Butyl Acetate	0%	7.34	77	1.00	NA	19.00	5	n-Butyl Acetate is a medium fast ester that can be used by itself or in blends to reduce the viscosity of most polymers. The evaporation rate of n-butyl acetate is used as the standard and is given a value of 1.0 on the chart.
Q15	Glycol Ether PM Acetate	PM Acetate	0%	8.03	114	0.39	NA	2.70	7	Can be use as a moderate tail solvent
Lacquer Thinners										
Q103	Lacquer Thinner	Lacquer Thinner	38.36%	6.75	11	NA	NA	NA	1	A general purpose laquer thinner.
**	TFS909	Wash Solvent	81.28%	6.89	22	NA	NA	NA	1	TFS909 is a very fast evaporating lacquer thinner that is designed as a flushing solvent for spray equipment, guns and hoses. It contains alcohol and should not be used to thin urethanes.



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Miscellaneous										
**	TFA880-70	AquaThin Refresher	7.50%	8.12	140	214 min. ^{4a}	NA	∞	10	The TFA880-70 is a refresher for water reducible coatings and can be used as a compliant parts cleaner
**	Water	Water	0%	8.33	999	120 min. ^{4a}	NA	∞	9	Ordinary tap water.
**	TFS321-50	SpectraThin-Exempt Blend	0.00%	8.43	4	30 min. ^{4a}	NA	0.11	6	The TFS321-50 is an exempt blend of reducers that can be used in a coating to maintain a specific VOC level.
**	TFS999-90 (Q89)	SpectraThin-Slow Reducer	12.71%	7.39	100	240 min. ^{4a}	NA	26	10	The TFS999-90 (Q89) is a slow evaporating solvent blend that is designed for use in zinc primers.
Urethane Blends										
**	TFS310-30	SpectraThin - 310 Moderate Reducer	60.82%	6.86	21	18 min. ^{4a}	NA	0.20	4	The TFS310-30 is a fast-to-moderate evaporating solvent blend specifically designed for Spectracron 310 Urethane.
**	TFS310-50	SpectraThin - 310 Slow Reducer	19.79%	7.28	35	30 min. ^{4a}	NA	27.90	5	The TFS310-50 is a slow evaporating solvent blend specifically designed for Spectracron 310 Urethane and will promote better flow and leveling in hot weather.
**	TFS309-30	SpectraThin - Urethane Fast	36.44%	6.49	7	12 min. ^{4a}	NA	2.20	3	The TFS309-30 is a fast evaporating urethane grade solvent blend that is designed for Spectracron 300, 350 and 360 series 2K urethane products.
**	TFS309-60	SpectraThin - Urethane Medium	24.77%	6.82	24	34 min. ^{4a}	NA	1.50	6	The TFS309-60 is a moderate evaporating urethane grade solvent blend that is designed for Spectracron 300, 350 and 360 series 2K urethane products.
**	TFS309-80	SpectraThin - Urethane Slow	17.21%	6.81	40	85 min. ^{4a}	NA	1.20	8	The TFS309-80 is a slow evaporating urethane grade solvent blend that is designed for Spectracron 300, 350 and 360 series 2K urethane products.
**	TFS309-90	SpectraThin - Urethane Very Slow	21.11%	6.82	45	110 min. ^{4a}	NA	4.00	10	The TFS309-90 is a very slow evaporating urethane grade solvent blend that is designed for Spectracron 300, 350 and 360 series 2K urethane products.

1. Percent organic HAPS (Hazardous Air Pollutant) contained in the solvent.

2. Density measured in pounds/gallon

3. Flash Point - measured on a Penske Martins Closed Cup (PMCC)

4. Evaporation rate of the solvent as related to n-Butyl Acetate (The value for n-butyl acetate = 1.0)

4a. Evaporation rate was determined in the PPG TrueFinish lab in Kenosha, WI at 77 Deg F and 20% RH

5. Solvent Strength - Kauri Butanol value - ability to solubilize resin and lower viscosity (hydrocarbon solvents only).

6. Restivity - measured in Megohms. A high resistance (>20 Megohms) means the solvent is non-conductive and will exhibit poor electrostatic spray. A coating that measures low resistance (<.05 Megohms) may be too conductive to spray.

7. Flow Rating - an arbitrary number given to the solvent based on it's ability to help the coating flow and level to a smooth finish (scale of 1-10)