

CoatOSil* and Silquest*

Additives, Surfactants and Silanes

Physical Properties

CoatOSil Additives

Additive	Appearance	Actives %	Color GVS ^(a)	Specific Gravity ^(b)	Flash Point ^(c)		Viscosity ^(d) cSt	Molecular Weight	Surface Tension ^(e) mN/m
					°F	°C			
CoatOSil 1211	Clear, light straw liquid	100	2	0.997	245	118	120	proprietary	20.5
CoatOSil 2400	White, waxy solid	100	white	1.078	285	141	600	proprietary	35.6
CoatOSil 2810	Clear, light straw liquid	100	2	0.988	210	99	12	600	–
CoatOSil 2812	Clear, light straw liquid	100	1	1.021	205	96	145	2,000	–
CoatOSil 3500	Clear, colorless liquid	100	1	1.049	250	121	220	proprietary	25.4
CoatOSil 3501	Clear, colorless liquid	100	1	1.018	340	171	1,000	proprietary	insoluble
CoatOSil 3505	Clear, colorless liquid	100	1	0.989	235	113	250	proprietary	–
CoatOSil 3509	Clear, amber liquid	100	4	1.031	300	149	125	proprietary	–
CoatOSil 3573	Clear, colorless liquid	100	1	1.019	230	110	400	10,000	insoluble



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(a) Typical values on Gardner Varnish Scale

(b) Apparent specific gravity at 25/25°C except for CoatOSil 2400 at 35/25°C

(c) Pensky-Martens Closed Cup, ASTM Method D93

(d) Viscosity at 25°C, except for CoatOSil 2400 at 35°C

(e) -0.1% (w/w) aqueous solutions using either DeNooy Ring or Wilhelmy Plate Method

CoatOSil* Additives (continued)

Specialty Surfactants	Appearance	Actives %	Color GVS ^(a)	Specific Gravity ^(b)	Flash Point ^(c)		Viscosity ^(d) cSt	Molecular Weight	Surface Tension ^(e) mN/m
					°F	°C			
CoatOSil 77	Clear, colorless liquid	100	1	1.007	240	116	20	600	20.5
CoatOSil 7001	Clear, colorless liquid	75	1	1.023	206	97	1,700	20,000	28.2
CoatOSil 7500	Clear, colorless liquid	100	1	0.987	250	121	140	3,000	insoluble
CoatOSil 7510	Clear, colorless liquid	100	2	0.996	235	113	720	13,000	insoluble
CoatOSil 7600	Clear, amber liquid	100	2	1.066	165	74	110	4,000	25.1
CoatOSil 7602	Clear, amber liquid	100	2	1.027	260	127	100	3,000	26.6
CoatOSil 7605	Amber, waxy solid	100	3	1.068	280	138	210	6,000	30.2
CoatOSil 7608	Clear, colorless liquid	100	1	1.020	245	118	40	600	21.4
CoatOSil 7650	Clear, amber liquid	100	2	1.074	250	121	300	3,000	23.2

(a) Typical values on Gardner Varnish Scale

(b) Apparent specific gravity at 25/25°C

(c) Pensky-Martens Closed Cup, ASTM Method D93

(d) Viscosity at 25°C

(e) -0.1% (w/w) aqueous solutions using either DeNooy Ring or Wilhelmy Plate Method

Silquest* Silanes

Silane	Chemical Name	Specific Gravity ^(a)	Flash Point ^(b)		Viscosity ^(c) cSt	Boiling Point (°C)	Molecular Weight
			(°F)	(°C)			
Silquest A-137 (Alkyl)	Octyltriethoxysilane	0.876	105	41	–	98 ^(d)	276.5
Silquest A-151 (Vinyl)	Vinyltriethoxysilane	0.905	111	44	0.7	160	190.4
Silquest A-171* (Vinyl)	Vinyltrimethoxysilane	0.967	82	28	3	122	148.2
Silquest A-174* (Methacryloxy)	gamma-Methacryloxy-propyltrimethoxysilane	1.045	226	108	2	255	248.4
Silquest A-186 (Epoxy)	beta-(3,4-Epoxy-cyclohexyl)-ethyltrimethoxysilane	1.065	235	113	5	310	246.4
Silquest A-187* (Epoxy)	gamma-Glycidoxypropyl-trimethoxysilane	1.069	230	110	3	290	236.4
CoatOSil* 1770 (Epoxy)	beta-(3,4-Epoxy-cyclohexyl)-ethyltriethoxysilane	1.000	220	104	5	>300	288.5
Silquest A-1100* (Amino)	gamma-Aminopropyl-triethoxysilane	0.946	205	96	2	220	221.3
Silquest A-1106 (Amino)	gamma-Aminopropylsilsesquioxane (aqueous solution)	1.076	>150	>66	4	–	Oligomer
Silquest A-1110 (Amino)	gamma-Aminopropyl-trimethoxysilane	1.014	180	82	2	210	179.3
Silquest A-1120 (Amino)	N-beta-(Aminoethyl)-gamma-aminopropyltrimethoxysilane	1.03	280	138	6	259	222.4
Silquest A-1170 (Amino)	bis-(gamma-Trimethoxysilylpropyl)amine	1.04	235	113	–	152 ^(e)	341.5
Silquest A-1230 (Alkylene oxide)	Proprietary	1.08	190	88	37	>150	–
Silquest A-Link 25 (Isocyanato)	gamma-Isocyanato-propyltriethoxysilane	0.999	171	77	1.5	238	247
Silquest A-Link 35 (Isocyanato)	gamma-Isocyanato-propyltriethoxysilane	0.999	171	77	1.5	238	247

(a) Apparent specific gravity at 25/25°C

(b) Pensky-Martens Closed Cup, ASTM Method D93

(c) Viscosity at 25°C

(d) At 2mm Hg

(e) At 4mm Hg

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