### YOUNG CHANG SILICONE CO LIMITED

Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui, Kowloon HK

System Component STW-B, STW-B-XX

**System Designation** YCI-130

System Class 130(B)

Report Date: 2006-11-01

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## Construction Details (Table II)

The use of this insulation system is limited to the combination of materials specified below. Where more than one item is designated under insulation function, they may be used toget indicated, or they may be used as alternates to one another. Functions designated "optional" are not necessarily required for every design. Insulation thicknesses and/or layers below

### **Filament Wire**

alternate constructions: Table Ⅱ ∨

Additional Ground & Interwinding insulation is not required to separate this winding from other windings or between this winding and grounded/dead metal Recognized Component Single and Multi-Layer Insulated Winding Wire (OBJT2) listed below Recognized Component Appliance Wiring Material (AVLV2) listed below

Unless otherwise noted, winding wire types listed below may be used in combination within a single product

YOUNG CHANG SILICONE CO LIMITED [E242198] - Recognized Component STW-B STW-B-XX 3.7 (0.09) Single- and Multi-layer Insulated Winding Wire - C 3.7 (0.09) Single- and Multi-layer Insulated Winding Wire - C

## **Enameled Wire**

Recognized Component - Magnet wire (OBMW2), single build or greater, round or rectangular, copper or aluminum unless stated otherwise for the types listed below Ground Insulation is required to separate this winding from grounded/dead metal Interwinding Insulation is required to separate this winding from other enameled wire

Unless otherwise noted, Winding Wire types listed below may be used in combination within a single product

ANSI Type	<u>Temp(°C)</u>	Basecoat(Topcoat)
MW 28	and 130°C	Polyurethane (Polyamide)
MW 75	and 130°C	Polyurethane
MW 79	or 155°C	Polyurethane
MW 80	or 155°C	Polyurethane (Polyamide)
MW 82	or 180°C	Polyurethane
MW 83	or 180°C	Polyurethane (Polyamide)

# **Ground and Interwinding Insulations**

<u>Jun</u>	<u>a and interwinding insulations</u>		
De	esignation	mils(mm)	comments
31	M COMPANY [E17385] - Recognized Component		
	(a)	1[layers]	
12	98 (b)	1[layers]	
12	98CR	1[layers]	
13	18-1 (a)	2[layers]	
	18-2 (a)	1[layers]	
	50-1 (b)	2[layers]	
	50-2 (c)	1[layers]	
	50CR-1	2[layers]	
	50CR-2	1[layers]	
	50F-1 (b) 50F-2 (c)	2[layers] 1[layers]	
	50T-1 (b)	2[layers]	
	50T-2 (b)	1[layers]	
	50T-3 (b)	1[layers]	
	51-1 (a)	2[layers]	
	51-2 (c)	1[layers]	
	51T-1 (a)	2[layers]	
	51T-2 (a)	1[layers]	
	-T (a) `´	1[layers]	
	D (a)	1[layers]	
5		1[layers]	
	(a)	1[layers]	
55		1[layers]	
	(a)	1[layers]	
	(a)	1[layers]	
	(a)	1[layers]	
75	(a)	1[layers] 1[layers]	
	iper 10 (a)	1[layers]	
		r[layers]	
	LANESE INTERNATIONAL CORP [E344082] - Recognized Component	44.0 (0.0)	
ZE	NITE 6130(+)	11.8 (0.3)	
CI	ELANESE INTERNATIONAL CORP [E41938] - Recognized Component		
Cı	rastin SK665FR(f1)	11.8 (0.3)	
Ry	rnite FR530(I)(+)(f1), FR530L(I)(+)(f1)	11.8 (0.3)	
ח	Pont Specialty Products USA LLC [E39505] - Recognized Component		
	note Specially 1 100HOL 100HN-S, 100H-ZT, 100HN-ZT, 100FPC-ZT, 100TAB-ZT, 100PST,	1 (0.03)	
	0HA, 100TN, 100VN, 100VN, 100FPC, 100FPC-A, 100HPP-ST	1 (0.00)	
	Pont Specialty Products USA, LLC [E34739] - Recognized Component	0 (0 05)	
	omex® 410	2 (0.05)	
	omex® 411	5 (0.13)	
	omex® 414	2 (0.05)	
	omex® 418, 818, 864LAM omex® 992, 992PSB	2 (0.05) 4 (0.1)	
	omex® 993, 993PSB	3 (0.08)	
	omex® 994, 994PSB	3 (0.08)	
	omex® E56, 356	3 (0.08)	
	•	2 (0.00)	
<u>D</u> (	<u>ipont Teijin Films</u>		

Mylar	1 (0.03)	polyethylene terephthalate film (PET)
JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD [E165111] - Recognized Co	omponent	
CT* (b)(g)	2[layers]	
PZ* (b)	2[layers]	
WF* (c)(h)	1[layers]	
METAL LINE CO LTD [E162848] - Recognized Component		
800 (a) *** this product is no longer Recognized ***	3 (0.08)	
800BT *** this product is no longer Recognized ***	2[layers]	
NITTO DENKO CORP [E34833] - Recognized Component		
3161-FT1 *** this product is no longer Recognized ***	1[lavers]	
3161-FT2 *** this product is no longer Recognized ***	1[layers]	
31CT-1 (a) *** this product is no longer Recognized ***	1[layers]	
31CT-2 (a) *** this product is no longer Recognized ***	1[layers]	Polyester
31CTF (a) *** this product is no longer Recognized ***	1[layers]	·
P LEO & CO LTD [E126174] - Recognized Component		
1P756 (h)	1[layers]	
1P801	1[layers]	
1P802	1[layers]	
Decree Comment of [F400F6] Decree in a Comment	· [isiy o. o]	
Resonac Corporation [E42956] - Recognized Component CP-J-8800, CP-J-NAF, CP-J-F(N) *** this product is no longer Recognized ***	457 (0.4)	
CP-J-8800, GP-J-NAF, GP-J-F(N) """ this product is no longer Recognized	15.7 (0.4)	
Resonac Techno Service Corporation [E514814] - Recognized Component		
CP-J-8800, CP-J-NAF, CP-J-F(N)	15.7 (0.4)	
SUMITOMO BAKELITE CO LTD [E41429] - Recognized Component		
SUMIKON PM-9630	15.7 (0.4)	
SUMIKON PM-9750	15.7 (0.4)	
SUMIKON PM-9820, PM-9825	15.7 (0.4)	
SUMIKON PM-9850	15.7 (0.4)	
SYMBIO INC [E50292] - Recognized Component		
35660 (a)	1[layers]	
35661 (c)	1[layers]	
TERAOKA SEISAKUSHO CO LTD [E56086] - Recognized Component		
560S #2	1[lavers]	
560S #3	1[layers]	
560S #5 *** this product is no longer Recognized ***	1[layers]	
561S #2 *** this product is no longer Recognized ***	1[layers]	
561S #3 *** this product is no longer Recognized ***	1[layers]	
561S #7 *** this product is no longer Recognized ***	1[layers]	
630F #25 (a)	1[layers]	
630F2 #50 (i) *** this product is no longer Recognized ***	1[layers]	
631S #25, 632S #25 (a)	1[layers]	
631S2 #50, 632S2 #50 (a) *** this product is no longer Recognized ***	1[layers]	
650S #25	1[layers]	
650S #50	1[layers]	
652S #25	1[layers]	
653F #25	1[layers]	
654S #25	1[layers]	

# **Lead Wires**

lead wires are optional for this system

Insulation
CPE - chlorosulfonated polyethylene +
SR - silicone rubber(with or without braid)
Perfluoro-alkyl vinyl ether/Al/PET/EVA
XLPE - crosslinked polyethylene Temp 105°C 150°C 150°C 150°C SR - silicone rubber(with or without braid) FEP - fluorinated ethylene propylene 200°C 200°C

# **Minor Sheet Materials**

(layer, outer, wrap etc.) minor sheet is optional for this system

Designation comments

**Dupont -Teijin Films** 

Polyethylene Terephthalate Film

<u>DuPont Specialty Products USA, LLC [E34739] - employing Recognized materials</u>

Nomex® 410 Nomex® 411

Nomex® 411 Nomex® 416, 416 LAM Nomex® 418, 818, 864LAM Nomex® 992, 992PSB Nomex® 993, 993PSB

Nomex® 994, 994PSB

Nomex® E56, 356

E. I. Dupont de Nemours & Co. Kapton Grades H, V, HN, VN and HA

Nomex® 424

Nomex® 425

GE Tosiba Silicone

TSE-3331

TSE-3331K

Sumitomo Bakelite Sumilite VSL, VSS

any sheet insulation or tape described in this table with no minimum thickness requirement may be used as a minor sheet material

<sup>+</sup> To be isolated from direct contact with windings (magnet wire) by any insulating material (tape, layer insulation, sleeving,etc.) listed in this table - unless specifically exclude requirement by a special note at the beginning of this table.

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3M COMPANY [E17385] - Listed or Recognized Component
1 (a)
1205
1298 (b)
1298CR
1318-1 (a)
1318-2 (a)
1350-1 (b)
1350-2 (c)
1350CR-1
1350CR-2
1350F-1 (b)
1350F-2 (c)
1350T-1 (b)
1350T-3 (b)
1351-1 (a)
1351-2 (c)
1351T-1 (a)
1351T-2 (a)
1351T-3 (a)
44 (a)
44-T (a)
44D (a)
44D-A (a)
44T-A (a)
54 (a)
55
56 (a)
57 (a)
58 (a)
74 (a)
75
92
MR 94
MR 94B (c)
Super 10 (a)
Super 20 (a)
3M Japan Limited [E59505] - Listed or Recognized Component
2245
CU-35C
SUPER 10-T
SUPER 10-W
BONDTEC PACIFIC CO LTD [E175868] - Listed or Recognized Component
201 (c)
201S (c)
370S (b)
371F (a) *** this product is no longer Recognized ***
Bondtec Pacific Co.
371S
CHYUN YIH TAPE CO LTD [E81174] - Listed or Recognized Component
PB416C
PB416F
DUCK SUNG HITECH CO LTD [E105147] - Listed or Recognized Component
220-B
231
DTS-230 *** this product is no longer Recognized ***
DTS-241
DTS-280
Duck Sung Hitech Co., Lt
220-F
DTS-204A
INTERTAPE POLYMER GROUP [E20780] - Listed or Recognized Component
51580-00 (40)* (b)
51595* (b)
54113
JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD [E165111] - Listed or Recognized Component
CT* (b)(g)
CT* (c)(g)
PZ* (b)
WF* (c)(h)
METAL LINE CO LTD [E162848] - Listed or Recognized Component
800 (a) *** this product is no longer Recognized *** 800BT *** this product is no longer Recognized ***
Nichiban Co. Ltd.
553H-UL
573H-UL
945UL-30
945UI -50
NITTO DENKO CORP [E34833] - Listed or Recognized Component 3161-FT1 *** this product is no longer Recognized *** 3161-FT2 *** this product is no longer Recognized ***
31C
31CT (a) *** this product is no longer Recognized ***
31CT-1 (a) *** this product is no longer Recognized ***
31CT-2 (a) *** this product is no longer Recognized ***
31CTF (a) *** this product is no longer Recognized ***
343B
343BN@ (a) *** this product is no longer Recognized ***
P Leo & Co (B C) Ltd
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1A605
 1E075
 1K7172
 1P130
 1P808
 1P830
 1P9FR
 1PN2R
 1TF07
PLEO & COLTD [E126174] - Listed or Recognized Component
1A025
1A570 *** this product is no longer Recognized *** 1C822 *** this product is no longer Recognized ***
 1G006
 1G130 (o)
 1G155
1G180
1G200
1H818 (m)
1H850 Black (q)
 1H850 Natural (o)
 1H860 (f)
 1H86A (o)
1H86R (g)
 1K063
1K7170
1K7171A
 1N008
 1N012
 1N155
 1P133 (f)
1P135 (c)
                *** this product is no longer Recognized ***
1P350 (e)
1P656 (d)
 1P700 (b)
 1P756 (h)
 1P801
 1P802
1P802 (k)
1P833 xx (@)
 1PEN2
 1PEN3
 1PN3R
 1PN820 (o)
1PN828 (o)
1TF05
Symbio Inc
N35660Y
SYMBIO INC [E50292] - Listed or Recognized Component
35660 (a)
35660Y (e)
35661 (c)
KA180H
TAE HWA INDUSTRIAL CO LTD [E92677] - Listed or Recognized Component
H-2715
H-5673 (+)
S-9101
Taehwa Industries
C-3310
E-3338
H6701
S-2115
TERAOKA SEISAKUSHO CO LTD [E56086] - Listed or Recognized Component
560S #3
560S #3
560S #5 *** this product is no longer Recognized ***
561S #2 *** this product is no longer Recognized ***
561S #3 *** this product is no longer Recognized ***
561S #7 *** this product is no longer Recognized ***
630F #25 (a)
630F2 #50 (i) *** this product is no longer Recognized ***
631S #25, 632S #25 (a)
631S #38 (d) *** this product is no longer Recognized ***
631S #38 (d) *** this product is no longer Recognized ***
631S2 #50, 632S2 #50 (a) *** this product is no longer Recognized ***
635F *** this product is no longer Recognized ***
636F
650S #50
652S #25
653F #25
654S #25
673AB 0.27 (b) *** this product is no longer Recognized *** 673AB 0.45 (b) *** this product is no longer Recognized ***
673F 0.27
673F 0.5
673FG 0.45 (b) *** this product is no longer Recognized *** 678F 0.27 (b) *** this product is no longer Recognized ***
831S
Teraoka Seisakusho Co., Ltd.
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epoxy varnish impregnated nonwoven polyester fabric, acrylic ad

silicone adhesive, polyimide film

acrylic adhesive, polyester film

acrylic adhesive, polyester film

polyester film

Designation comments <u>CELANESE INTERNATIONAL CORP [E41938] - employing Recognized materials</u> Zytel 101(r9)(f1), 101F(r9)(f1), 101L(r9)(f1), E101(r9)(f1), E101L(r9)(f1) Zytel 103FHS(+), 103HSL(+), RN5077E(+), E103HSL(+) Zytel 70G13L Zytel 70G30HSL, 70G30HSLR Zytel 70G33HS1L(+) Zytel 70G33L(+) Zytel FR50(+)(f1) CHANG CHUN PLASTICS CO LTD [E59481] - employing Recognized materials LONGLITE T375J(G5)(G6) **T200NA** Hitachi Chemical Co Ltd CD-F-800 CP-J-8600 CP-J-8700 Kolon Industries SAMYANG CORPORATION [E121254] - employing Recognized materials TRIBIT, Sam Yang's Co. Ltd. PBT 1500GN-30 SUMITOMO BAKELITE CO LTD [E41429] - employing Recognized materials SUMIKON AM-1130, AM-113 SUMIKON PM-9720 SUMIKON PM-9830 <u>SUMITOMO CHEMICAL CO LTD [E249884] - employing Recognized materials SUMIKASUPER E4008(c4)(c2)(c3)(j)</u> TORAY INDUSTRIES INC [E41797] - employing Recognized materials **Spacer and Wedges** spacer and wedges are optional for this system Designation comments E. I. Dupont de Nemours & Co. Nomex Board any material described in this table with no thickness requirement may be used as a spacer or a wedge **Tubing and Sleeving** tubing and sleeving are optional for this system Designation comments <u>Changyuan Electronics Group Co Ltd</u> CB-TT <u>Daikin</u> FP-520 Essex Furukawa Magnet Wire Japan Co., Ltd. [E58401] - Recognized Component PI-Tube, PIT-S GREAT HOLDING INDUSTRIAL CO LTD [E156256] - Recognized Component TFL **TFS** TFT Hoechst TFBX7100 KURABE INDUSTRIAL CO LTD [E52717] - Recognized Component SE-1 SE-2 LS CABLE & SYSTEM LTD [E84393] - Recognized Component GSHS-1625 NIKKAN INDUSTRIES CO LTD [E55258] - Recognized Component NIKKAN INDUSTRIES CO LTD [E72406] - Recognized Component NIKKAN INDUSTRIES CO LTD [E88468] - Recognized Component E-651U-1 E-651U-2 NISSEI ELECTRIC CO LTD [E67922] - Recognized Component RSU-1 Nissei Electric Co., Ltd RSU-2 P LEO & CO LTD [E176865] - Recognized Component 2T-TFL-xx.x (a) 2T-TFS-xx.x (a) P. Leo & Co Ltd 2R-YG SUMITOMO ELECTRIC FINE POLYMER INC [E48762] - Recognized Component 811 or Sumitube F2 \*\*\* this product is no longer Recognized \* SUMITOMO ELECTRIC FINE POLYMER INC [E75077] - Recognized Component 851 or SUMITUBE F4 Young Woo Co. Ltd. YT-130

Yt-130A YT-140

YT-605 YT-605R Zeus Company Inc [E64007] - Recognized Component TFE-HW-600, TFE-SW-600 TFE-LW-150, TFE-SW-150, TFE-TW-150 TFE-TW-300, TFE-SW-300, TFE-HW-300

### Tie Cords

tie cords are optional for this system

Designation

comments

Various Manufacturers Uncoated fiberglass

# **Varnishes**

varnishes are optional for this system

Designation

comments

<u>CHEMTECH CO LTD [E258329] - Recognized Component</u> ES925-43D# \*\*\* this product is no longer Recognized and may not be suitable for use in this system \*\*\*

ELANTAS PDG, Inc. [E75225] - Recognized Component 434 Air Dry
468-2 (d), 468-2FC (d), 468-2-7-xxF (d), 468-2-7FC-xxF (d)
V1380, V1380FC, V1380FC Black, 80381FC
V1630, V1630FS, V1630FS50, V1630FS Black, 80361, 80361FS

<u>John C Dolph Co [E317427] - Recognized Component</u> AC-43, EB-43-HG, EB-43-FB, AC-43-66, EG-43/698-D, EG-43/759-D, ER-43/368-D, EB BC-346A, BC-346-A, BC-346B, BC-346-E, BB-348, BB-346-HF, BC-346HF, BG-346A, BB-346-A, BB-346/A, BC-370

NOROO PAINT & COATINGS CO LTD [E93947] - Recognized Component DVB-2085(\*)

Resonac Corporation [E72979] - Recognized Component WP-2952F-2G, WP-2952F-2G(Y), WP-2952F-2G(YL), WP-2952F-2G(K), WP-2952F-2G(K)

<u>SE KYE CHEMICAL CO LTD [E257443] - Recognized Component</u> SR-337\* \*\*\* this product is no longer Recognized and may not be suitable for use in this system \*\*\*

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