

YOUNG CHANG SILICONE CO LTD
481-7 GASAN-DONG, KUMCHUN-GU, SEOUL 153-803 KR

System Component
STW-B

System Designation
YCI-130

System Class
130(B)

Report Date: 2006-09-27

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alternate constructions: [Table III](#) ▼

Construction Details (Table III)

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 together 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 minimum.

Filament Wire

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

<u>YOUNG CHANG SILICONE CO LTD [E242198] - Recognized Component</u> STW-B	3.7 (0.09)	Single- and Multi-layer Insulated Winding Wire - (
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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

<u>ANSI Type</u>	<u>Temp(°C)</u>	<u>Basecoat(Topcoat)</u>
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>Designation</u>	<u>mils(mm)</u>	<u>comments</u>
<u>3M COMPANY [E17385] - Recognized Component</u>		
1 (a)	1 [layers]	
1298 (b)	1 [layers]	
1298CR	1 [layers]	
1318-1 (a)	2 [layers]	
1318-2 (a)	1 [layers]	
1350-1 (b)	2 [layers]	
1350-2 (c)	1 [layers]	
1350CR-1	2 [layers]	
1350CR-2	1 [layers]	
1350F-1 (b)	2 [layers]	
1350F-2 (c)	1 [layers]	
1350T-1 (b)	2 [layers]	
1350T-2 (b)	1 [layers]	
1350T-3 (b)	1 [layers]	
1351-1 (a)	2 [layers]	
1351-2 (c)	1 [layers]	
1351T-1 (a)	2 [layers]	
1351T-2 (a)	1 [layers]	
44 (a)	1 [layers]	
44-A (a)	1 [layers]	
44-T (a)	1 [layers]	
44D (a)	1 [layers]	
44D-A (a)	1 [layers]	
44T-A (a)	2 [layers]	
5	1 [layers]	
54 (a)	1 [layers]	
55	1 [layers]	
56 (a)	1 [layers]	
57 (a)	1 [layers]	
58 (a)	1 [layers]	
74 (a)	1 [layers]	
75	1 [layers]	
Super 10 (a)	1 [layers]	
Super 20 (a)	1 (0.03)	
<u>CELANESE INTERNATIONAL CORP [E344082] - Recognized Component</u>		
ZENITE 6130(+)	11.8 (0.3)	
<u>DUCK SUNG HITECH CO LTD [E105147] - Recognized Component</u>		
DTS-204 (e)	1 [layers]	
DTS-280	1 [layers]	
<u>DuPont Specialty Products USA, LLC [E34739] - Recognized Component</u>		
Nomex® 410	2 (0.05)	
Nomex® 411	5 (0.13)	
Nomex® 414	2 (0.05)	
Nomex® 418, 818, 864LAM	2 (0.05)	
Nomex® 992, 992PSB	4 (0.1)	
Nomex® 993, 993PSB	3 (0.08)	
Nomex® 994, 994PSB	3 (0.08)	
Nomex® E56, 356	3 (0.08)	
<u>Dupont Teijin Films</u>		

Mylar	1 (0.03)	
<div style="border: 1px solid gray; padding: 2px;"> E I DUPONT DE NEMOURS & CO INC [E39505] - Recognized Component Kapton® 100H, 100HN, 100HN-S, 100H-ZT, 100HN-ZT, 100FPC-ZT, 100TAB-ZT, 100PST, 100HA, 100TN, 100V, 100VN, 100FPC, 100FPC-A, 100HPP-ST </div>		
<div style="border: 1px solid gray; padding: 2px;"> E I DUPONT DE NEMOURS & CO INC [E41938] - Recognized Component Crastin SK665FR(f1) 11.8 (0.3) Rynite 530 (f1) (+), 530L (f1) (+) 11.8 (0.3) Rynite FR530(l)(+)(f1), FR530L(l)(+)(f1) 11.8 (0.3) </div>		
<div style="border: 1px solid gray; padding: 2px;"> E. I. Dupont de Nemours & Co. Kapton H, V, HN, VN or HA Grades 1 (0.03) </div>		
<div style="border: 1px solid gray; padding: 2px;"> HITACHI CHEMICAL CO LTD [E42956] - Recognized Component CP-J-8800, CP-J-NAF, CP-J-F(N) 15.7 (0.4) </div>		
<div style="border: 1px solid gray; padding: 2px;"> JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD [E165111] - Recognized Component CT* (b)(g) 2 [layers] PZ* (b) 2 [layers] WF* (c)(h) 1 [layers] </div>		
<div style="border: 1px solid gray; padding: 2px;"> METAL LINE CO LTD [E162848] - Recognized Component 800 (a) *** this product is no longer Recognized *** 3 [layers] 800BT *** this product is no longer Recognized *** 1 [layers] </div>		
<div style="border: 1px solid gray; padding: 2px;"> NITTO DENKO CORP [E34833] - Recognized Component 3161-FT1 1 [layers] 3161-FT2 1 [layers] 31CT-1 (a) 1 [layers] 31CT-2 (a) 1 [layers] 31CTF (a) 1 [layers] </div>		
		Polyester
<div style="border: 1px solid gray; padding: 2px;"> Nitto Inc [E20392] - Recognized Component P-245 (a) (P-245 BLK (a)) 2 [layers] </div>		
<div style="border: 1px solid gray; padding: 2px;"> P LEO & CO LTD [E126174] - Recognized Component 1H860 (f) 1 [layers] 1P130 (b) (\$) 1 [layers] 1P350 (e) 1 [layers] 1P756 (h) 1 [layers] 1P801 1 [layers] 1P802 1 [layers] 1P9FR * (a) 1 [layers] </div>		
<div style="border: 1px solid gray; padding: 2px;"> P. Leo 1P808 1 [layers] 1P830 1 [layers] </div>		
<div style="border: 1px solid gray; padding: 2px;"> 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) </div>		
<div style="border: 1px solid gray; padding: 2px;"> SYMBIO INC [E50292] - Recognized Component 35660 (a) 1 [layers] 35660Y (e) 1 [layers] 35661 (c) 1 [layers] MY130 (b) 1 [layers] </div>		
<div style="border: 1px solid gray; padding: 2px;"> TERAOKA SEISAKUSHO CO LTD [E56086] - Recognized Component 560S #2 1 (0.03) 560S #3 1 [layers] 560S #5 1 [layers] 630F #25 (a) 1 [layers] 630F2 #50 (i) 1 [layers] 631S #25 (a) 1 [layers] 631S #38 (d) *** this product is no longer Recognized *** 1 [layers] 631S2 #50 (a) 1 [layers] 650S #25 1 [layers] 650S #50 1 [layers] 652S #25 1 [layers] </div>		
<div style="border: 1px solid gray; padding: 2px;"> Toray Industries Lumirror S10 1 (0.03) </div>		

Lead Wires

lead wires are optional for this system

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

+ 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.

Minor Sheet Materials

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

Designation	comments
<u>Dupont -Teijin Films</u>	
Polyethylene Terephthalate Film	
<u>DuPont Specialty Products USA, LLC [E34739] - employing Recognized materials</u>	
Nomex® 410	
Nomex® 411	
Nomex® 414	
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 Toshiba Silicone
 TSE-3331
 TSE-3331K

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

Tapes

tapes are optional for this system

Designation	comments
<u>3M COMPANY [E17385] - Listed or Recognized Component</u>	
1 (a)	
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-2 (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)	
5	
54 (a)	
55	
56 (a)	
57 (a)	
58 (a)	
74 (a)	
75	
92	
MR 94	
MR 94B (c)	
Super 10 (a)	
Super 20 (a)	
<u>BONDTEC PACIFIC CO LTD [E175868] - Listed or Recognized Component</u>	
201 (c)	
201S (c)	
370S (b)	
371F (a) *** this product is no longer Recognized ***	
<u>Bondtec Pacific Co.</u>	
371S	
<u>CHYUN YIH TAPE CO LTD [E81174] - Listed or Recognized Component</u>	
PB416C	
PB416F	
<u>DUCK SUNG HITECH CO LTD [E105147] - Listed or Recognized Component</u>	
220-B	
231	
DTS-204 (e)	
DTS-230	
DTS-241	
<u>Duck Sung Hitech Co., Lt</u>	
220-F	
<u>INTERTAPE POLYMER GROUP [E20780] - Listed or Recognized Component</u>	
4426-00 (41)*	
4427-00 (415)*	
51560-08 (a)	
51578 (415SA)*	
51580-00 (40)* (b)	
51587-04*	
51588 (50)*	
51589-00*	
51589-04*	
51595* (b)	
51596* (b)	
51599 (17)*	
54113	
<u>Intertape Polymer Group (Tesa, Tuck, Spinnaker)</u>	
51587-17	polyester film
51589-17	polyester film
51594-17	
<u>JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD [E165111] - Listed or Recognized Component</u>	

CT* (b)(g)
 CT* (c)(g)
 PZ* (b)
 WF* (c)(h)

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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

NITTO DENKO CORP [E34833] - Listed or Recognized Component

3161-FT1
 3161-FT2
 31C
 31CT (a)
 31CT-1 (a)
 31CT-2 (a)
 31CTF (a)
 343B (a)
 343BN@ (a) *** this product is no longer Recognized ***

Nitto Inc [E20392] - Listed or Recognized Component

P-245 (a) (P-245 BLK (a))

P Leo & Co (B C) Ltd

1A605
 1E075
 1K7172
 1P130
 1P808
 1P830
 1P9FR
 1PN2R
 1TF07

silicone adhesive, polyimide film
 acrylic adhesive, polyester film
 polyester film
 acrylic adhesive, polyester film

P LEO & CO LTD [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
 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

Saint-Gobain Performance Plastics Corp.

K102
 K104

acrylic adhesive, polyimide film
 silicone adhesive, polyimide film

Symbio Inc

N35660Y

SYMBIO INC [E50292] - Listed or Recognized Component

35660 (a)
 35660Y (e)
 35661 (c)
 KA180E
 KA180H
 KA180HA
 KA180K
 KA180L
 MY130 (b)

TAE HWA INDUSTRIAL CO LTD [E92677] - Listed or Recognized Component

E-3338
 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 #2****560S #3****560S #5****630F #25 (a)****630F2 #50 (i)****631S #25 (a)**

631S #38 (d) *** this product is no longer Recognized ***

631S2 #50 (a)**650S #50****673F 0.27 (a)****673F 0.5 (a)****831S**Teraoka Seisakusho Co., Ltd.

530F

Young Woo

YT-130A

YT-605

YT-605B

YT-605R

YT-605W

YOUNG WOO CO LTD [E203272] - Listed or Recognized Component**YT-130****YT-140**

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epoxy varnish impregnated nonwoven polyester fabric, acrylic ac

Core tubes and Bobbins

(for mechanical support only) cores are optional for this system

Designation

comments

CHANG CHUN PLASTICS CO LTD [E59481] - employing Recognized materials**LONGLITE 4115(f1)****LONGLITE 4130****LONGLITE T-355J, T355J****LONGLITE T353****LONGLITE T373J****LONGLITE T375J(G5)(G6)****T200NA****T220NA**Changyuan Electronics (Shenzhen) Co Ltd

CB-HFT

CB-HFT-300

CB-HFT-600

Changbao102

E I DUPONT DE NEMOURS & CO INC [E41938] - employing Recognized materials**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)**Hexion Specialty Chemicals GMBH

PF2736 (a) (b)

Hitachi Chemical Co Ltd

CD-F-800

CP-J-8600

CP-J-8700

Kingboard Laminates

KR3150 FR-1

Kolon Industries

KN333HS

KP212V0

Nan Ya Plastics (Hui Zhou) Corp LTD

1403G5G

NAN YA PLASTICS (HUI ZHOU) CORP LTD [E235269] - employing Recognized materials**1403G1****1403G2****1403G3****1403G4****1403G6**SUMITOMO BAKELITE CO LTD [E41429] - employing Recognized materials**SUMIKON AM-1130, AM-113****SUMIKON PM-9630****SUMIKON PM-9720****SUMIKON PM-9750****SUMIKON PM-9820, PM-9825****SUMIKON PM-9830**SUMITOMO CHEMICAL CO LTD [E249884] - employing Recognized materials**SUMIKASUPER E4008(c4)(c2)(c3)(j)**TORAY INDUSTRIES INC [E41797] - employing Recognized materials**1494**

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 requirements

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Tubing and Sleeving

tubing and sleeving are optional for this system

Designation	comments
<u>Changyuan Electronics Group Co Ltd</u> CB-TT	
<u>FURUKAWA ELECTRIC CO LTD [E58401] - Recognized Component</u> PI-Tube, PIT-S	
<u>GREAT HOLDING INDUSTRIAL CO LTD [E156256] - Recognized Component</u> TFL TFS TFT	
<u>LS CABLE & SYSTEM LTD [E84393] - Recognized Component</u> GSHS-1625	
<u>NIKKAN INDUSTRIES CO LTD [E55258] - Recognized Component</u> S-693F-1	
<u>NIKKAN INDUSTRIES CO LTD [E72406] - Recognized Component</u> S-693-600	
<u>NISSEI ELECTRIC CO LTD [E67922] - Recognized Component</u> RSU-1	
<u>Nissei Electric Co., Ltd</u> RSU-2	
<u>P LEO & CO LTD [E176865] - Recognized Component</u> 2T-TFL-xx.x (a) 2T-TFS-xx.x (a)	
<u>SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD [E203950] - Recognized Component</u> WF	
<u>SUMITOMO ELECTRIC FINE POLYMER INC [E48762] - Recognized Component</u> 811 or Sumitube F2 *** this product is no longer Recognized ***	
<u>SUMITOMO ELECTRIC FINE POLYMER INC [E75077] - Recognized Component</u> 851 or SUMITUBE F4	
<u>Young Woo Co, Ltd.</u> YT-130 Yt-130A YT-140	
<u>ZEUS INDUSTRIAL PRODUCTS INC [E64007] - Recognized Component</u> 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
<u>Various Manufacturers</u> Uncoated fiberglass	

Potting Compounds

potting compounds are optional for this system

Designation	comments
<u>Fong Young Chemical Co., Ltd.</u> E-536A/H-536B E-759/H-759 E532-1A/H532-1B	
<u>GE Toshiba Silicone</u> TSE3331 TSE3331K	
<u>HUNG SHIUNG ENTERPRISES CO LTD [E180899] - employing Recognized materials</u> F205-A/H042	

Varnishes

varnishes are optional for this system

Designation	comments
<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	

Miscellaneous Minor Insulations

miscellaneous minor insulations are optional for this system

Designation	comments
<u>CHANG CHUN PLASTICS CO LTD [E59481] - employing Recognized materials</u> LONGLITE T-355J, T355J LONGLITE T357 LONGLITE T375J(G5)(G6) LONGLITE T399J T200NA T220NA	
<u>Chem Tech</u> ES-928P ES905 ES928P-1 ES928P-2 ES928P-3	Adhesive

SHA-101D
SHA-101D-1

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DuPont Specialty Products USA, LLC [E34739] - employing Recognized materials
Nomex® 410
Nomex® 411
Nomex® 414
Nomex® 416, 416 LAM
Nomex® 418, 818, 864LAM
Nomex® 992, 992PSB
Nomex® 993, 993PSB
Nomex® 994, 994PSB

E. I. Dupont de Nemours & Co.
 Kapton H
 Kapton HA
 Kapton HN
 Kapton V
 Kapton VN
 Nomex 424
 Nomex 425
 Nomex E56A

Hitachi Chemical
 CP-J-8600
 CP-J-8700
 CP-J-8800

KUO SEN ENTERPRISE CO LTD [E239105] - employing Recognized materials
EP141FR

Noroo Paint & Coatings
 DEM-1000
 DEM-1001
 DEM-1002
 DEM-1003

Adhesive
 Adhesive
 Adhesive
 Adhesive

Se Kye Chemical Co., Ltd.
 SK-011
 SK-013F
 SK-015B
 SK-017
 SK-018
 SK-021
 SK-031F
 SK-1000

SUMITOMO BAKELITE CO LTD [E41429] - employing Recognized materials
SUMIKON AM-1130, AM-113
SUMIKON PM-9630
SUMIKON PM-9720
SUMIKON PM-9750
SUMIKON PM-9820, PM-9825
SUMIKON PM-9830
SUMIKON PM-9850

Sung Moon Telecommunication
 UNIBOND-812