



**CUSTOMER
ACCEPTANCE
STANDARD**

No.: TP-386
Date: 14-Jun-04
Supersedes: 03-Oct-03
Page: Page 1 of 3

FIBERGLASS B/C SEWING THREAD

I. DESCRIPTION

Fiberglass B/C Sewing Threads are a balanced construction of very fine, continuous filament fiberglass yarns with a starch-based sizing. The yarns are twisted and plied into flexible high-twist fiberglass threads and are supplied on plastic supply packages.

II. USE

These products are used for sewing and small diameter tying operations where a high temperature, inorganic, flexible and high strength thread is required.

III. WAIVER OF RESPONSIBILITY

AGY represents only that the fiberglass B/C Sewing Thread complies with the requirements of this specification, and makes no warranties with respect to, nor assumes responsibility for the use of such yarns. The purchaser, as a condition of sale, agrees to satisfy himself as to the suitability of fiberglass B/C Sewing Thread for the use that he intends to put it, and assumes all responsibility for its performance in such uses. It is recommended that the customer test sufficient quantities of thread to assure that the total range of variation inherent in the product has been evaluated.

IV. AVAILABLE PRODUCTS, PACKAGES AND PHYSICALS

Type	Available Packaging	Bare Glass Yield ¹						Minimum Breaking Strength ²		Approximate Maximum Strand Diameter ^{3,4}
		Minimum Yds/lb	Nominal Yds/lb	Maximum Yds/lb	Minimum Tex	Nominal Tex	Maximum Tex	Lbs	N	
BC-4	8512	3418	3550	3682	134.7	139.7	145.1	13.0	57.8	0.014"
BC-6	8512	2258	2330	2402	206.5	212.9	219.7	20.0	89.0	0.017"
BC-8	8512	1685	1730	1775	279.5	286.7	294.4	25.0	111.2	0.020"

- 1) AGY Test Method W-07Ea-T - Copy available upon request.
- 2) AGY Test Method S-01Gd - Copy available upon request.
- 3) AGY Test Method D-02C - Copy available upon request.
- 4) This is for information only, not a cause for rejection.

Requirements for acceptance shall be as indicated by approved physical samples and/or photographs as agreed upon by AGY and the customer. These samples and photographs are on file at AGY and are available upon request.

V. WORKMANSHIP AND VISUAL DEFECTS

The following visual defects are cause for package rejection:	
Broken Filaments	These are defined as extremely fuzzy packages with broken filaments exceeding 1/16” throughout the length of the traverse. Maximum number of broken filaments is 50.
Splices	No splices are permitted in the finished product.
Dirty Thread	Any package containing unremovable dirt spots, oil, grease, finger marks or foreign matter. (Minute dirt specks are not a cause for rejection).
Loose Thread	Loose thread is defined as having a mass of thread that has moved vertically from the original position on the tube.
Unbalanced Thread	Unbalanced thread is defined as thread that will twist upon itself when held in the form of an open loop. Maximum twisting upon itself is 5 times.
Mis-identification of Product ¹	Any package containing thread whose disc identification is not in agreement with the carton content label. Any package which has lost an end (known as ends-out).
Damaged Thread ²	Includes any package that has been damaged by striking or vibrating against some object. Those packages having slight indentation of the thread, but no damage or dirt present are acceptable.
	Any package containing thread that has been bruised, cut or mashed to the extent that strands or yarn have been severed is rejectable.
Wrap-ins	Wrap-ins are defined as ends being fed onto the tube, after a break, thereby breaking the continuity of the thread.
Trapped Waste	The presence of foreign waste fiber trapped in the package.
Bad Builds	Any package containing an undercut exceeding ¼”. In addition, any package with an undercut that shows a space between the thread and the base. The undercut shall be measured by a straight edge resting on the distance between the straight edge and the maximum point of the undercut.
	Any package with a flare that exceeds the dimension of the base flange. The flare shall be measured by a straight edge placed at the point of maximum flare and held parallel to the package base. The straight edge and the thread must no be beyond the base flange.
Damaged Tubes	Any tube received in any shipment where the exposed part of the



**CUSTOMER
ACCEPTANCE
STANDARD**

	tube shows signs of being cut or is rough, thus preventing the smooth, continuous removal of the thread.
--	--

- 1) In the event that either AGY or the customer has reason to suspect that a shipment may contain mis-identified threads or ends-out, both parties will be notified and AGY assumes responsibility for appropriate action.
- 2) AGY accepts no responsibility for any damaged or sloughed material that is contained in a carton that shows any evidence of any physical abuse. Any carton showing evidence of having been opened from the bottom will be considered as mishandling by the customer. Such damage, or question of damage, is the responsibility of the carrier, as according to AGY terms of sale, delivery to the carrier constitutes delivery to the customer. AGY accepts no responsibility for any damage occurring in a customer's plant. Shipping damage and mishandling by the customer is not a cause for rejection.

VI. PACKAGING AND IDENTIFICATION

A.	Package 8512	Specifics
	Type	Single Flange Bobbin
	Inside Diameter	1.672" – 1.682"
	Length	10.640" ± 0.0625"
	Traverse	9.108" – 9.162"
	Base Diameter	4.341" ±0.020
	Type Build	Milk bottle
	Length of Straight Edge	4 ¾"
	Length of Taper	4 ¼"
	Maximum Package Diameter	4 5/16"
	Minimum Package Weight	½ Pound
	Average Package Weight	2.5 Pounds (For Information Only)

B. The sewing thread packages will be packed unwrapped.

C. Carton and Pallets

Carton Number	T-384
Type	Tray
Length	22 ½"
Width	22 ½"
Height	36"
Packages/Layer	25
Packages/Carton	75
Pallet	45" x 45"
Cartons/Pallet	4
Packages/Pallet	300

This specification is subject to change without notice.



**CUSTOMER
ACCEPTANCE
STANDARD**

TP-386
14-Jun-04
Page 4 of 4

Identification

Each package will bear an AGY identification disc.

Each carton will be adequately identified by a carton content label.