



**4715**

**02**

**Title: PRODUCT STANDARD**

Document Number

Revision

Page 1 of 4

## **Product Standard**

**for**

**4715**

**Beverage Bundle**

## 1.0 SCOPE

This standard covers a non-insulated beverage bundle designed to meet ASTM E84 standards for flame spread and smoke density. It is to be used in the conveying and dispensing of alcoholic and non-alcoholic beverage products. It has an operating temperature range of -10°F to +150°F (23°C - 66°C). All components and materials that are in direct contact with the material being conveyed meet FDA specifications and are listed under NSF STD 51.

## 2.0 CONSTRUCTION

- Bundle Core** This product's construction consists of the FDA approved NSF listed 100% Virgin co-extrusions. Each of which is smooth and seamless. Their I.D.'s being free from obstructions and/or foreign materials. The standard color of the individual hose elements is black. Reference product standard for 3226 tubing for specifics regarding dimensional and burst ratings.
- Vapor Barrier Film** A vapor barrier tape is spirally applied around the bundle core. This tape is overlapped to seal the bundle core from undesirable vapors, and to maintain the bundle's configuration.
- Zip Strip** An arimid fiber is placed between the bundle sheath and composite wrapped core. This is done to aid in stripping the sheath and to minimize damage to the bundle core from knives, etc..
- Bundle Cover** The beverage bundle cover is a proprietary smooth, seamless, fire retardant thermoplastic extruded over the barrier wrapped bundle core. The standard color is **BLACK**. However, other colors are available upon special request.

## 3.0 PRODUCT IDENTIFICATION

The product is identified by a marking text that appears longitudinally on the cover of the product. The standard ink color is white. The text of the standard marking is shown in the following example: However, private marking of the product is available upon special request.

SYNFLEX® 4715-XXXX PA FR BARRIER HOSE BUNDLE NSF-51 MAX TEMP 150°F EATON

NOTE: In addition to the marking text the product is identified by a lot number for manufacturing traceability.

#### 4.0 DIMENSIONS

Table 1

PRODUCT PART NO.	MAJOR DIM.	MINOR DIM.	MIN. BEND RADIUS ON MINOR DIM.	APPROX. WT. PER 100 FT.
4715-1000	2.97 ± .094	2.11 ± .094	17.9"	134
4715-1200	2.97 ± .094	2.70 ± .094	17.9"	157
4715-1400	3.28 ± .125	2.97 ± .125	19.8"	180
4715-1600	3.65 ± .125	2.70 ± .125	22.0"	198
4715-1900	3.65 ± .125	3.28 ± .125	22.0"	226

\* DO NOT BEND ON MAJOR DIM.

#### 5.0 QUALIFICATION TESTS

To meet the qualification requirements for this bundle standard, the bundle that was produced using this standard shall conform to the following tests and requirements.

##### 5.1 **Dimensional Test and Visual Examination:**

All bundles shall conform to the dimensions detailed in Table 1 of this standard. All bundles shall be visually examined for sheath defects and to see that bundle identification has been properly applied.

##### 5.2 **Burst Test:**

This test shall be conducted on all elements of the bundle core in accordance to the latest issue of SAE J343. The minimum burst pressures are listed in the 3226 product standard.

##### 5.2 **Burn Test:**



**4715**

**02**

Document Number

Revision

Title: **PRODUCT STANDARD**

Page 4 of 4

This test shall be conducted on a representative bundle in accordance to ASTM E84-97A.

## **6.0 INSPECTION TESTS**

The following tests are to be performed on samples representing each production lot of beverage bundle. A production lot is defined as one shifts' production (8-12 hrs). Requirements shall be the same as the corresponding qualification tests:

1. Dimensional test and visual examination of finished bundle.
2. Burst Test, all elements, per ASTM D1599 or SAE J343

## **7.0 ADDITIONAL INFORMATION**

## **8.0 TUBE/HOSE ASSEMBLY INFORMATION**

Eaton does NOT supply or manufacture couplings for use with 3226 tubing or 4715 series tubing bundles.