



HANNA RUBBER COMPANY

# Specification Sheet

## General Specifications Hanna Type "A"

- A. SCOPE:** HANNA TYPE "A" is a premium grade of vegetable fiber gasket material, saturated with a glue-glycerine impregnation rendered insoluble by means of a tanning agent to give a strong, flexible, all-proof gasket material with properties retained during proper storage and in use.
- B. CERTIFICATION:** HANNA TYPE "A" is certified to meet the below listed specifications:
- |   |                |
|---|----------------|
| HH-P-96G, Type 1 only (Federal Specification) |                |
| MIL-G-12803A                                  | P3313B         |
| MIL-G-128030B & MIL-G-12803C                  | F326128M6      |
| ASTM D 1170 and SAE J90                       | P3313B         |
| ASTM F 104 and SAE J90                        | F326128-E21 M6 |
- C. PHYSICAL CHARACTERISTICS:**
- |                 |            |
|-----------------|------------|
| Fibre           | 45% to 55% |
| Moisture        | 6% to 10%  |
| Chemical Solids | 35% to 45% |
- D. CONDITIONING:** All samples conditioned prior to testing as specified by applicable application—usually 50% RH -70 to 85° F for a period of 22 or 24 hours.
- E. STANDARDS:** (Using American Society of Testing Materials Specification ASTM F 104 prepared jointly with the Society of Automotive Engineers and similar in requirements to MIL-G-12803C.)
- |                   |                  |             |
|-------------------|------------------|-------------|
| <b>ORIGINAL</b>   | Test Load        | 1000p.s.i.  |
| <b>PHYSICAL</b>   | Compressibility  | 25% to 40%  |
| <b>PROPERTIES</b> | Tensile Strength | 2000 p.s.i. |
|                   | Recovery         | 40% minimum |
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- |                   |                            |  |
|-------------------|----------------------------|--|
| <b>PHYSICAL</b>   | Fuel B--Thickness increase | 5% maximum (Not Applicable to MIL-G-12803C)  |
| <b>PROPERTIES</b> | #3 Oil--Thickness increase | 5% maximum                                   |
| <b>AFTER</b>      | Fuel B--Weight increase    | 15% maximum (Not Applicable to MIL-G-12803C) |
| <b>IMPRESSION</b> | #3 Oil--Weight increase    | 15% maximum                                  |
|                   | Water--Weight increase     | 100% maximum                                 |
- F. THICKNESS TOLERANCES:**
- | Thickness                     | Plus or Minus |
|-------------------------------|---------------|
| .006", .010" and .015"        | .0035"        |
| .021", .031", .046" and .062" | .005"         |
| .096" (3/32")                 | .008"         |
| .125" (1/8") and up           | .016"         |
- G. FLEXIBILITY:** HANNA TYPE "A" is capable of withstanding bending around a rod with a diameter of twice the thickness of the material under test, without cracking, breaking, or excessive marring of the surfaces.
- H. TEMPERATURE LIMIT:** 250° F