



AEROSPACE ENGINEERING BULLETIN

AEB  
229A

HOSE/FITTINGS

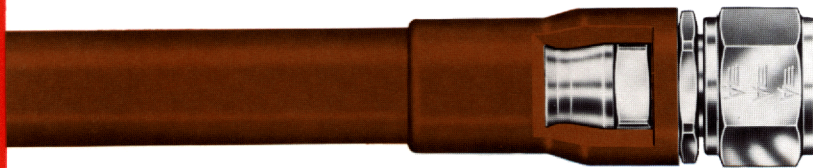


## Aeroquip Teflon\* Hose Assemblies with Integral Silicone Firesleeve

MIL-H-25579 and MIL-H-27267 1500 PSI Hydraulic Service

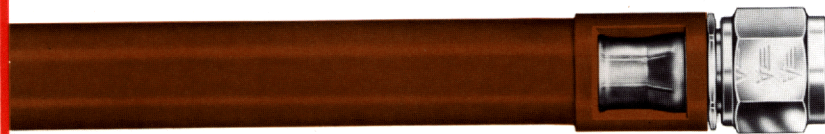


AE466 Medium Pressure Teflon Hose with Compression Crimp Fitting

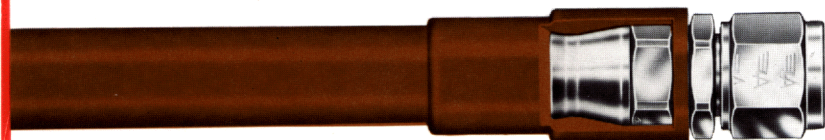


AE466 Medium Pressure Teflon Hose with **"super gem"**® Fitting  
Per MIL-F-27272 (for use with MIL-H-27267 hose)

AS1339B 3000 PSI Hydraulic Service



AE446 High Pressure Teflon Hose with **"super-C"**™ Fitting



AE446 High Pressure Teflon Hose with **"super gem"**® Fitting

Now you can have an asbestos free firesleeve by specifying Aeroquip integral silicone firesleeves on Aeroquip Teflon hose assemblies.

This new hose/sleeve combination meets the fire test requirements of TSO-C53A Type D and TSO-C75 Type III A and III B.

Available on both medium and high pressure Aeroquip Teflon hose assemblies, the new silicone firesleeve is applied directly onto the metal braid and fittings to form a smooth, tight bond.

### Advantages of Integral Silicone Firesleeve

1. New silicone sleeve is asbestos free.
2. Adheres directly to hose.
3. Smaller envelope for neater appearance.
4. Hose flexibility is not impaired.
5. Non-age sensitive for extra-long service life.
6. Lightweight.
7. Eliminates the use of band clamps.
8. Eliminates fluid "wicking."
9. Manufactured in long lengths.
10. Temperature range,  $-65^{\circ}\text{F}$ . to  $+450^{\circ}\text{F}$ . (matches temperature range of Teflon hose).
11. Excellent chafe resistance.

The part number chart on page two shows the basic hose style and appropriate specifications as well as identification information.

Assemblies can be fabricated from bulk hose and fittings. See Aeroquip Service Bulletin ASB-122.

## Performance Data

### AE466 Hose

(666/667 Hose With Integral Silicone Firesleeve)  
(Per MIL-H-27267)

| Dash Size | O.D. Tube Size | Hose I.D. (Min.) | Hose O.D. (Max.) | Operating Pressure (psi) | Proof Pressure (psi) | Min. Burst Pressure (psi) | Min. Bend Radius | Weight Per Foot (lbs.) |
|-----------|----------------|------------------|------------------|--------------------------|----------------------|---------------------------|------------------|------------------------|
| AE466-4   | ¼              | .173             | .640             | 1500                     | 3000                 | 12000                     | 2.00             | .204                   |
| AE466-5   | ⅝              | .235             | .702             | 1500                     | 3000                 | 10000                     | 2.00             | .238                   |
| AE466-6   | ¾              | .298             | .765             | 1500                     | 3000                 | 9000                      | 4.00             | .272                   |
| AE466-8   | ½              | .391             | .890             | 1500                     | 3000                 | 8000                      | 4.62             | .336                   |
| AE466-10  | ⅝              | .485             | .979             | 1500                     | 3000                 | 7000                      | 5.50             | .408                   |
| AE466-12  | ¾              | .615             | 1.104            | 1000                     | 2000                 | 5000                      | 6.50             | .487                   |
| AE466-16  | 1              | .851             | 1.424            | 1250                     | 2500                 | 5000                      | 7.38             | .841                   |
| AE466-20  | 1¼             | 1.101            | 1.679            | 1000                     | 2000                 | 4000                      | 11.00            | .977                   |
| AE466-24  | 1½             | 1.344            | 1.987            | 1000                     | 2000                 | 4000                      | 14.00            | 1.309                  |

All Dimensions in Inches.

NOTE: For additional information on 666/667 hose, see AEB-170A, "666/667 hose with **"super gem"** fittings" and AEB 213A, "666/667 hose with compression crimp fittings."

### AE446 Hose

(AE246 Hose With Integral Silicone Firesleeve)  
(Per MIL-H-38360)

| Dash Size | O.D. Tube Size | Hose I.D. (Min.) | Hose O.D. (Max.) | Operating Pressure (psi) | Proof Pressure (psi) | Min. Burst Pressure (psi) | Min. Bend Radius | Weight Per Foot (lbs.) |
|-----------|----------------|------------------|------------------|--------------------------|----------------------|---------------------------|------------------|------------------------|
| AE446-4   | ¼              | .212             | .640             | 3000                     | 6000                 | 16000                     | 1.50             | .250                   |
| AE446-6   | ¾              | .298             | .725             | 3000                     | 6000                 | 14000                     | 2.50             | .304                   |
| AE446-8   | ½              | .391             | .855             | 3000                     | 6000                 | 14000                     | 2.88             | .436                   |
| AE446-10  | ⅝              | .485             | .965             | 3000                     | 6000                 | 12000                     | 3.25             | .538                   |
| AE446-12  | ¾              | .602             | 1.134            | 3000                     | 6000                 | 12000                     | 3.88             | .756                   |

All Dimensions in Inches.

NOTE: For additional information on AE246 hose, see AA8, "AE246 hose with **"super gem"** fittings, and AEB 209A, "AE246 with **"super-C"** fittings."

## Hose Compatibility

Aeroquip Teflon hose with integral silicone firesleeve has been tested and shown to be compatible with the following fluids:

Fire Resistant Hydraulic Fluids  
JP-4 (ML-T-5624)  
AvGas Grade 100/130 (MIL-C-5572)

MIL-L-7808 Lube Oil  
Varsol (cleaning solvent)



# Fittings/Hose Assemblies

|                                         | Straight to Straight | Straight to 45° | Straight to 90° | 45° to 45° | 45° to 90° | 90° to 90° |
|-----------------------------------------|----------------------|-----------------|-----------------|------------|------------|------------|
| Compression Crimp Fittings (AE466 Hose) |                      |                 |                 |            |            |            |
| "super gem" Fittings (AE466-AE446 Hose) |                      |                 |                 |            |            |            |
| "super-C" Fittings (AE446 Hose)         |                      |                 |                 |            |            |            |

| Fittings                            | AE466 Hose With "super gem" Ftgs. (Per MIL-H-27267 & MIL-H-25579) | AE466 Hose With Compression Crimp Ftgs. (Per MIL-H-27267 & MIL-H-25579) | AE446 Hose With "super-C" Fittings (Per MIL-H-38360) | AE446 Hose With "super gem" Fittings (Per MIL-H-38360) |
|-------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------|
| <b>Flared 37° CRES</b>              |                                                                   |                                                                         |                                                      |                                                        |
| Straight to Straight                | AE6665000                                                         | AE3663161                                                               | AE2463530                                            | AE2463536                                              |
| Straight to 45°                     | AE6665001                                                         | AE3663162                                                               | AE2463531                                            | AE2463537                                              |
| Straight to 90°                     | AE6665002                                                         | AE3663163                                                               | AE2463532                                            | AE2463538                                              |
| 45° to 45°                          | AE6211                                                            | AE6208                                                                  | AE4703                                               | AE4709                                                 |
| 45° to 90°                          | AE6212                                                            | AE6209                                                                  | AE4704                                               | AE4710                                                 |
| 90° to 90°                          | AE6213                                                            | AE6210                                                                  | AE4705                                               | AE4711                                                 |
| <b>Flared 37° Aluminum</b>          |                                                                   |                                                                         |                                                      |                                                        |
| Straight to Straight                | AE6665003                                                         | AE1010752                                                               |                                                      |                                                        |
| Straight to 45°                     | AE6665004                                                         | AE1010753                                                               |                                                      |                                                        |
| Straight to 90°                     | AE6665005                                                         | AE1010754                                                               |                                                      |                                                        |
| 45° to 45°                          | AE6214                                                            | AE6330                                                                  |                                                      |                                                        |
| 45° to 90°                          | AE6215                                                            | AE6331                                                                  |                                                      |                                                        |
| 90° to 90°                          | AE6216                                                            | AE6332                                                                  |                                                      |                                                        |
| <b>Flareless CRES (NAS1760)</b>     |                                                                   |                                                                         |                                                      |                                                        |
| Straight to Straight                | AE6665006                                                         | AE3663167                                                               | AE2463533                                            | AE2463539                                              |
| Straight to 45°                     | AE6665007                                                         | AE3663168                                                               | AE2463534                                            | AE2463540                                              |
| Straight to 90°                     | AE6665008                                                         | AE3663169                                                               | AE2463535                                            | AE2463541                                              |
| 45° to 45°                          | AE6217                                                            | AE6190                                                                  | AE4706                                               | AE4712                                                 |
| 45° to 90°                          | AE6218                                                            | AE6191                                                                  | AE4707                                               | AE4713                                                 |
| 90° to 90°                          | AE6219                                                            | AE6192                                                                  | AE4708                                               | AE4714                                                 |
| <b>Flareless Aluminum (NAS1760)</b> |                                                                   |                                                                         |                                                      |                                                        |
| Straight to Straight                | AE6665009                                                         | AE1010755                                                               |                                                      |                                                        |
| Straight to 45°                     | AE6665010                                                         | AE1010756                                                               |                                                      |                                                        |
| Straight to 90°                     | AE6665011                                                         | AE1010757                                                               |                                                      |                                                        |
| 45° to 45°                          | AE6220                                                            | AE6333                                                                  |                                                      |                                                        |
| 45° to 90°                          | AE6221                                                            | AE6334                                                                  |                                                      |                                                        |
| 90° to 90°                          | AE6222                                                            | AE6335                                                                  |                                                      |                                                        |

CRES and Aluminum fittings for AE466 hose with "super gem" reusable fittings do not conform to NAS1760 standards.

## HOW TO ORDER

To properly specify the correct hose assembly, use the simple numbering system below. Straight and single elbow assemblies are identified by the number beginning with either AE246, or AE666 and double elbow assemblies are identified by a number beginning AE4XXX or AE6XXX. Any assembly can be ordered using these numbers.

