

LABORATORY REPORT NO. 3462

Test Products:

- 1) Vapor corrosion inhibitor (VCI) treated Gun Sleeve Fabric
- 2) Silicone-treated Gun Sleeve Fabric – Control

KRIEG VAPOUR PHASE TEST – 1045 STEEL

TEST PRODUCTS	1045 Steel
1) Vapor corrosion inhibitor (VCI) treated Gun Sleeve Fabric	0 NO CORROSION
2) Silicone-treated Gun Sleeve Fabric - Control	6C SEVERE

CONTACT CORROSION TEST

Test Metals:

- A. 1010 Steel
- B. A-45 Galvanized Steel
- C. Copper

CONTACT CORROSION TEST OBSERVATIONS: 336 Hours @ 120° F. 100%R.H.

TEST PRODUCTS	1010 Steel	A-45 Glav.	Copper
1) Vapor corrosion inhibitor (VCI) treated Gun Sleeve Fabric	0 NO CORROSION	0 NO CORROSION	0 NO CORROSION
2) Silicone-treated Gun Sleeve Fabric - Control	5C SEVERE	6C SEVERE	6C SEVERE

CORROSION INHIBITION RATING

LEGEND

0 = No Corrosion / No Discoloration
1 = 1% or Less Corrosion / 1% or Less Discoloration
2 = 2% - 5% Corrosion / 2% - 5% Discoloration
3 = 6% - 10% Corrosion / 6% - 10% Discoloration
4 = 11% - 25% Corrosion / 11% - 25% Discoloration
5 = 25% - 50% Corrosion / 25% - 50% Discoloration
6 = 51% or Greater Corrosion / 51% or Greater Discoloration

A = Slight B = Moderate C = Severe

COMMENTS:

1. In the Krieg test, the silicone-treated gun sleeve control did not provide vapor phase protection to 1045 steel. In the contact test, it failed to protect 1010 steel, galvanized steel and copper.
2. In the Krieg test, the vapor corrosion inhibitor (VCI) treated gun sleeve provided complete vapor phase protection to 1045 steel. In the contact test, it provided complete protection to 1010 steel, galvanized steel and copper.

RECOMMENDATIONS:

The vapor corrosion inhibitor (VCI) treated gun sleeve provides excellent vapor phase and multi-metal contact corrosion protection and is recommended for use in VCI applications.