

# SSB HOSE

"Flexible Solutions for Today's Rigid Industries"



Phone: 905-755-9610  
Toll Free: 877-755-9610  
Fax: 905-755-9612  
E-mail: sales@ssbhose.com

## Media

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The metal hose assembly designer must know what the hose will convey. Matching the application piping material is sometimes used as a guide in selecting the alloy for the metal hose. However, this practice does not necessarily mean that the alloy selected is suitable. Metal hose is manufactured from thin wall material and may not have the same total life as heavier wall tube or pipe of the same material. Some factors to be considered when designing metal hose assemblies include corrosion, abrasion and viscosity of the media conveyed.

### **Corrosion**

Material selection of the core and braid should take into consideration the corrosive nature of the media conveyed by the hose assembly and the outside environment. Corrosion can be accelerated in many chemicals where high temperature is present. SSB Hose does not publish corrosion resistance data because of the many variables present in metal hose applications. Many reference materials are available and provide accurate corrosion data. The Corrosion Data Survey published by the National Association of Corrosion Engineers (NACE) is considered to be one of the sources for corrosion resistance information.

### **Abrasion**

For internal abrasion, premature failure can occur if the media is abrasive. The use of an interlock liner may extend the life of a hose assembly. For external abrasion, a protective cover may be used to extend hose life.

### **Viscosity**

Flow of viscous media can be enhanced by incorporating the use of a jacketed hose assembly. This design utilizes an inner hose that is encapsulated by an outer hose.

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