



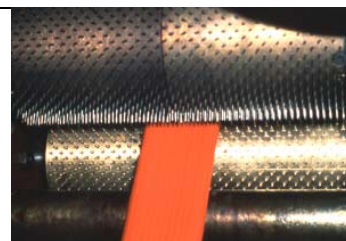
## Topic: Chemical Resistance

Today's fire hoses are increasingly used in locations where aggressive chemicals are present. BS6391 Type 3 or covered hoses are required to demonstrate chemical resistance. This is substantiated by the water pick-up test in BS6391.



## Why is it important?

Synthetic textiles used in the reinforcement of covered fire hoses are prone to attack by even weak acids or alkalis. The cover on Type 3 hoses are pin pricked during manufacture to allow volatile gases to escape during vulcanisation. Unless these holes are plugged with latex after manufacture then a reduction in burst strength can result if a hose is exposed to chemicals.



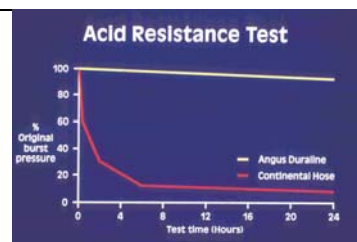
## How does Duraline perform?

Duraline has totally sealed pin holes which prevent the ingress of contaminants and chemicals from the outside. This gives totally effective chemical and oil resistance over a wide range of products which is confirmed by the water pick up test and a more stringent test involving battery acid.



## How do other hoses compare?

Some hoses try to "fool" the test by applying a thin membrane of latex or silicone to the cover. Even though new hoses may pass the specified water pick-up test, unfortunately this coating can be easily ruptured on flexing or destroyed by chemicals exposing the textile to further attack. Only Duraline has its pin holes fully and permanently sealed.



## Other support data:

BS6391 - The standard for covered fire hose  
If it isn't Angus, it can't be Duraline - The Video  
Duraline - The World's Finest Fire Hose - Powerpoint Presentation  
BS6391 Type 3 Fire Hose Specification