Trelleborg Technologies & Selection Perfection of Hoses.

-Introduction

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-Trelleborg Technologies & Selection perfection of hoses

-BAM Byford Asset management QR code based system

Trelleborg Technologies & Selection Perfection of Hoses.

- As Byford Fluid Solutions we have had a close working relationship with Trelleborg since 1996 after Gary Byford while researching the wine industry in Europe came across Trelleborg hoses.
- These were first imported for use in the dairy industry on milk tankers, then expanded to unloading bays before the range was expanded to suit all food industries including wine.
- This was then continued on by Belinda Gilbert (Byford) and advanced into what is todays Byford Fluid Solutions

Trelleborg Technologies & Selection Perfection of Hoses.

- Trelleborg
- Founded in 1905
- Produce around 600,000 metres of food grade hoses
- Joint visits
- Ability to custom build solutions tailored to Australian industry

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- **Three spirals of wire or PET Plastic**
- **Unique to Trelleborg food grade hoses and an investment in engineering that is not expected to be met from another manufacturer in the next 15-30 years if at all! (very large capital project required)**
- **What unique properties does this give the hoses?**

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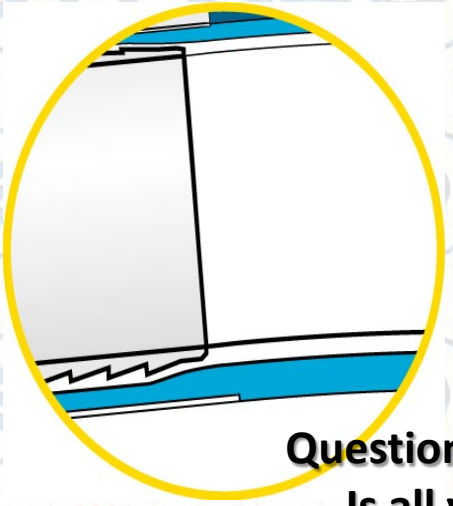
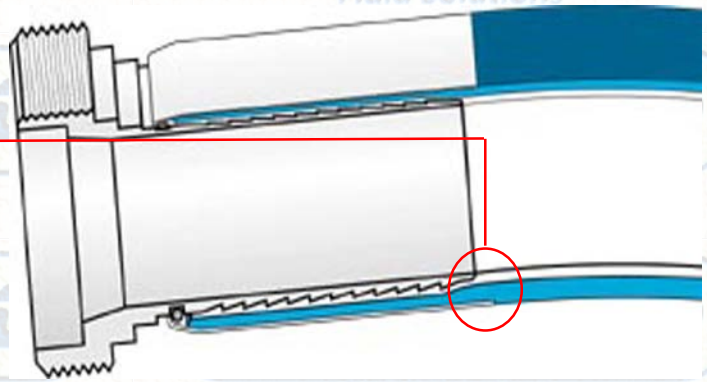
Trelleborg designed Hygienic Swage!
Designed to help eliminate potential taint and bacterial points

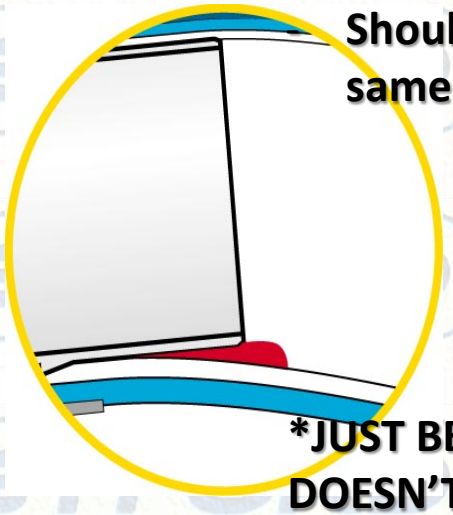


Swaged-on coupling

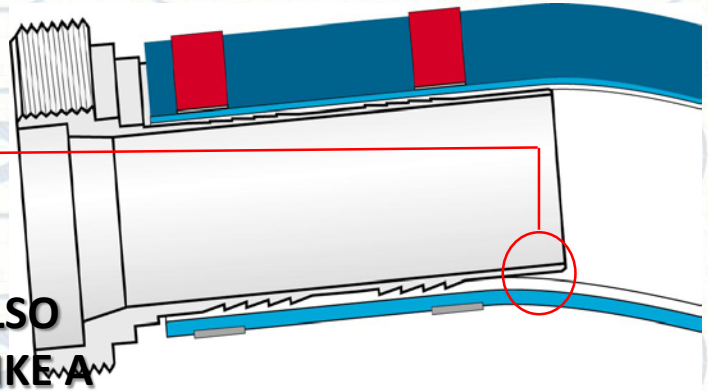


Questions!

- **Is all your pipework purge welded? Shouldn't your Hose connections be kept in the same regard!**



Clamped-on Coupling



***JUST BECAUSE A HOSE IS CRIMPED ALSO DOESN'T MEAN IT IS HYGIENIC! JUST LIKE A POORLY PURGE WELDED PIECE OF PIPE WORK**

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- **WINE TAINT FROM RUBBER HOSES!**
- **Currently under investigation by the AWRI**
- **Smells referred in the draft as “Baby Poo” or “Dirty Nappy”**
- **Price shouldn’t be definitive answer when selecting hoses.**
- **Trelleborg self test to the highest European standards and independent test are done.**
- **Legal Standing in claiming losses from hose taint!**

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European Union decided on July 5th, 2005 that a list of phthalates (IDEHP, DBP and BBP) can no longer be used for toys and any child care items.
The other phthalates types (DINP, DIDP and DNOP) are also forbidden in any items that kids could bring to mouth.

Furthermore, the EU (Directive 2007/19/EC) amended the Directive 2002/72/EC and changed the test procedure for plastic materials and articles intended to come into contact with food.
The simulant for milk will from now on be ethanol at 50% instead of distilled water as it will better simulates milk's fatty content; the extraction of phthalates can now be measured.

There are no phthalates at all in our rubber hoses for food applications!

Customers / assemblers should however pay attention to the lubricants or gaskets they use as these may contain phthalates.

BYFORD Fluid Solutions

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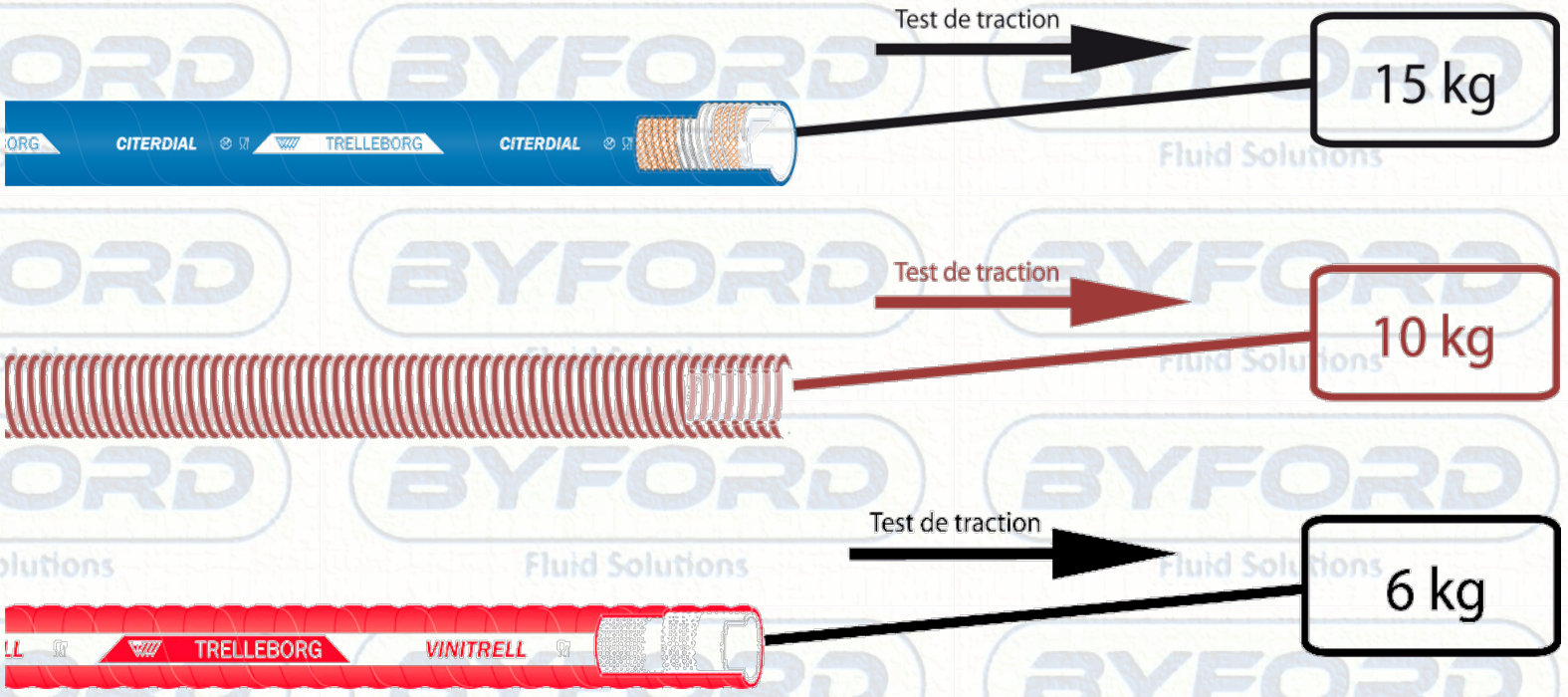
- Polymer Coatings
- Vinitrell is an example of what a polymer coating can Achieve
- This product as demonstrated previously makes the dead weight of a hose irrelevant as the drag resistance changes
- This has been a leading development in regards to the handling of rubber food grade hoses.

Drag Resistance



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- BAM
- Byford Asset management
- QR Code Based
- Timed Inspections
- Ability to upload up to six documents
- Free phone App is all that is needed
- GPRS location
- Designed for hose assemblies but able to be used for almost any asset

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- **Hose Selection Perfection**
- First and foremost STAMPED SELECTION
- S – Size
- T- Temperature
- A-Ambient conditions
- M-Media to transfer (including CIP)
- P-Pressure required in both general use and CIP
- E-End Connections (always consider hygiene)
- D-Distributor Recommendation – Always ask the opinion of your hose distributor often a wealth of knowledge to call upon.

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- SELECTION PERFECTION MAJOR CONSIDERATIONS
- HANDLING ABILITY OF THE HOSE
- WEAR
- PHTHALATES!
- BACTERIAL TRAPS
- PRICE!?
- TAINT

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- **SUMMARY AND CONCLUSIONS**
- **Do your homework**
- **Develop procedures**
- **Network**
- **More often then not you get what you pay for if you are purchasing purely on price you may have just paid something small for something the that smells like**
- **s…….something that came from a small child!!**

Trelleborg Technologies & Selection Perfection of Hoses.

- **THANKYOU**

- **Visit our stand if you would like any further information.**
- **Or a demonstration of our products and services**

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