### **Electrofusion Joint** Integrity Solutions.





-----

## Why do electrofusion joints fail?



Why do electrofusion joints fail?

- Lack of preparation
- Not using pipe clamps
- Contamination
- Out of round pipe
- Failure to observe cooling cycle
- Incorrect pipe scraping and peeling



# How can we resolve the problems?



How can we resolve the problems?

- Training and education
- Follow correct procedures
- Quality control
- Re-round the pipe before jointing
- Pipe preparation scraping & peeling
- Use clamps & positioning kits
- Use a calibrated welder
- Complete the cooling cycle







# Importance of pipe surface preparation + clamping.



- Incorrect alignment
- Clamps not used





- Contamination
- Hand scraped -Insufficient





- Contamination
- Pipe not scraped





Pipe damage





- Pipe tension on joint
  Clamps not used
- Molten plastic forced out of joint area





 Pipe not fully inserted – Clamps not used



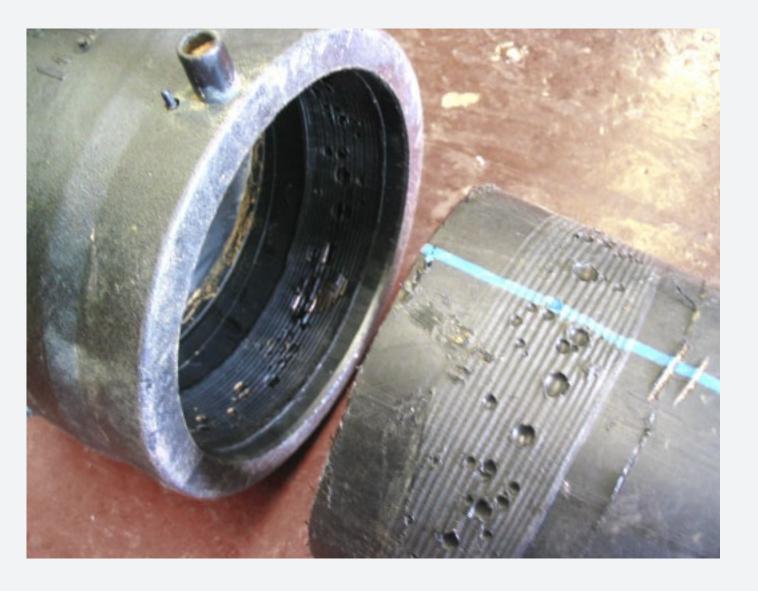


No pipe preparation





- No pipe preparation
- Water contamination





- Contamination
- Damaged fitting





Contamination

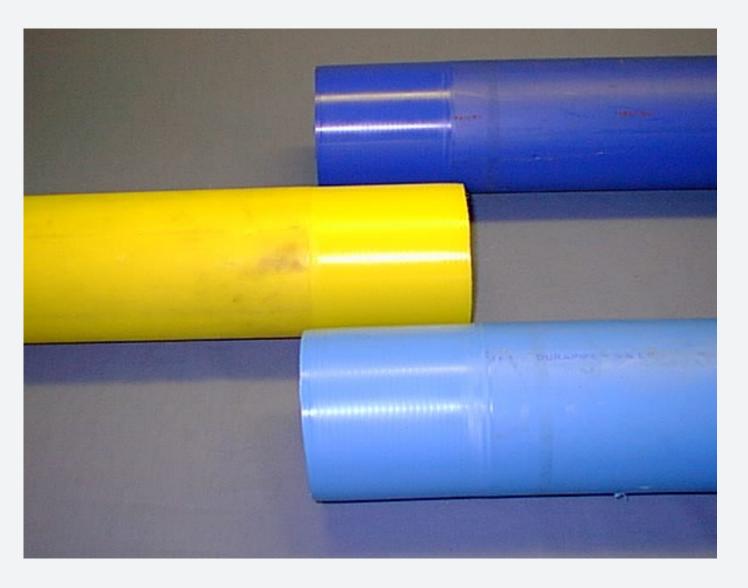




## Introducing best practices



 Prepared pipe using Calder rotary scraping tools





 Use the right tools to make the right connection





 Use the right tools in all environments





 Use Caldertech's CalderSafe Quality Control System

CalderSefe<sup>®</sup> Data Acquisition for Electrofusion Welding







#### **Contact Us**

For more information contact: sales@caldertech.com.au





