

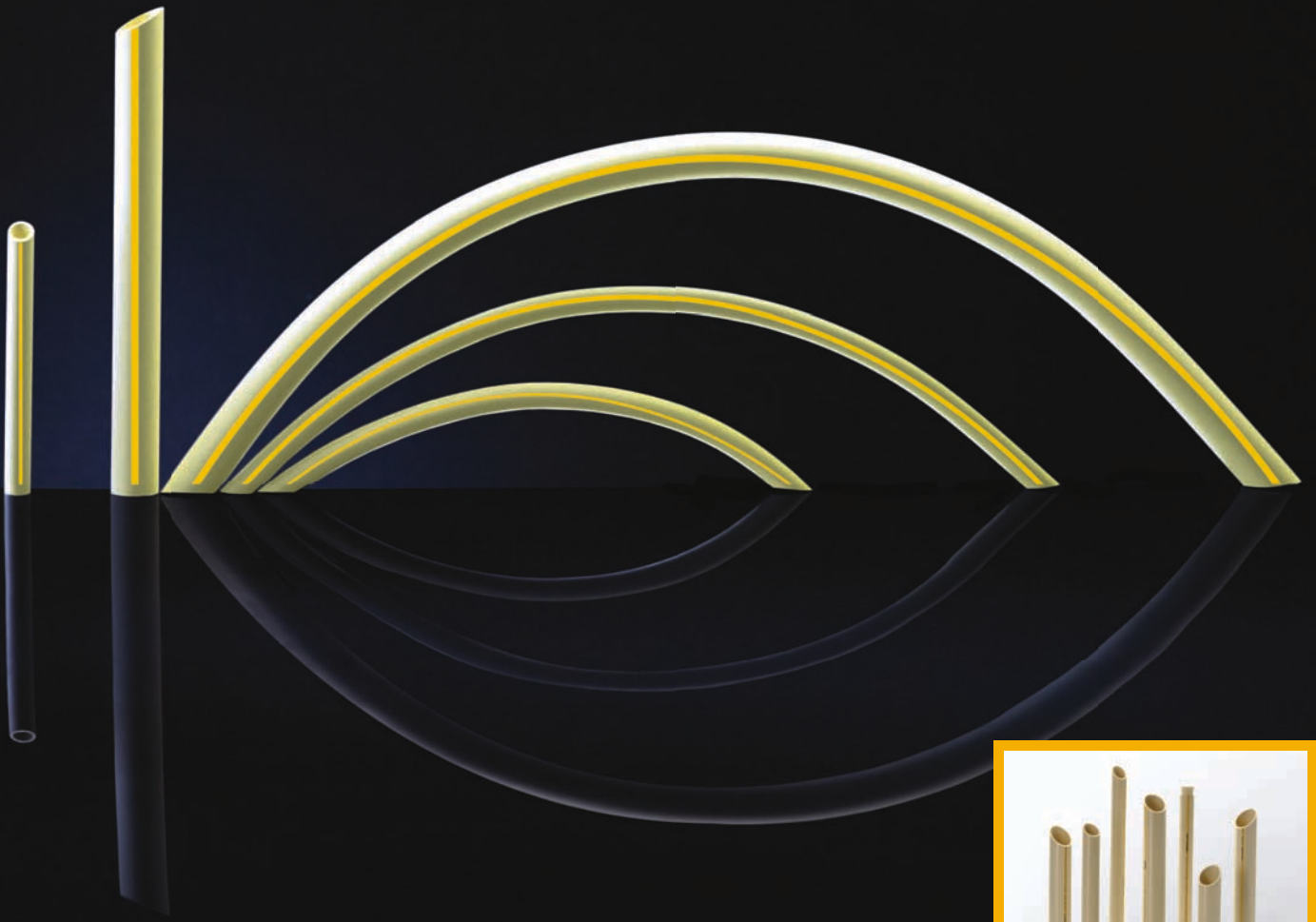


ASTRAL[®]
where INNOVATION flows

STRONG NAHIN, ASTRAL STRONG!![™]

ASTRAL FLOWGUARD[®] BENDABLE MULTILAYER COMPOSITE PIPE

**Stays straight when you want it.
Bends when you need it.**



ASTRAL **FLOWGUARD[®]** **BENDABLE**
MULTILAYER PIPE

FlowGuard[®] Bendable is the registered mark of The Lubrizol Corporation. The Lubrizol Corporation is a Berkshire Hathaway company.

Special applications require a customized plumbing solution. FlowGuard® Bendable multilayer composite pipe is like nothing else on the market today. Constructed of multiple layers of CPVC and aluminum, it provides maximum durability and ease of installation.

Available in straight lengths, it stays straight when you want it and bends when you need it, making it ideal for a variety of applications, including: partition piping, water service lines, underslab, shower risers and other plumbing lines where added strength and flexibility are required. Fully kink-resistant, it can be bent with common bending tools and retains its shape without the need for additional reinforcement.

INTRODUCTION

FlowGuard® Bendable multilayer composite pipe consists of an inner layer of CPVC, a middle layer of butt-welded aluminum and an outside layer of CPVC. All of the layers are bonded with an adhesive, specially formulated to withstand water temperatures up to 180°F (82°C). The pipe is tested to applicable tests in ASTM F2855 standard.



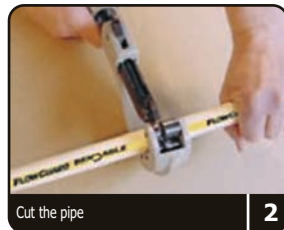
The strength of the adhesive is sufficiently high to keep all three layers bonded together under testing conditions specified by ASTM F2855.

A recommended application for FlowGuard® Bendable multilayer composite pipe is under-slab construction where long runs of potable water need to be bent to protrude through concrete.

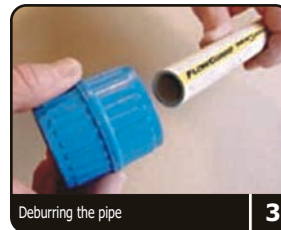
INSTALLATION PROCEDURE



Sleeve, Standard Fitting & CPVC Cement 1



Cut the pipe 2



Deburring the pipe 3



Solvent cementing inside the pipe 4



Install the sleeve fitting 5



Solvent cementing inside the fitting 6



Assembling the standard fitting on pipe 7



The finished solvent cement coupling 8

BENEFITS

- Innovative insert fitting allows the use of standard ASTRAL® fittings
- Resists corrosion, pitting, scaling and chlorine degradation - even when exposed to alkaline soil conditions or water with high chloride levels
- Minimizes labor time and costs with a fast, easy installation process involving readily available inexpensive tools
- Offers a cost-effective, price-stable alternative to copper
- Features a thermal expansion coefficient closer to copper very low than other plastics
- Eliminates the need for joints if bent

FEATURES

- Excellent combination of flexibility and rigidity allows the pipe to be workable yet hold shape
- Cost-effective alternative to rigid and Type L soft copper
- Extra toughness provided by aluminum middle layer
- Kink-resistant
- Very less thermal expansion/contraction.
- Hanger spacing can be increased in overhead applications
- Long-term pressure performance is not affected by chlorine or common water disinfectants, UV resistant
- Suitable for continuous recirculation
- Backed by Lubrizol's 52+ years of expertise in CPVC piping systems

AVAILABLE SIZES

- 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" Copper Tube Size in straight length
- Coils are available in 1/2" to 1" sizes.



STRONG NAHIN, ASTRAL STRONG!!™

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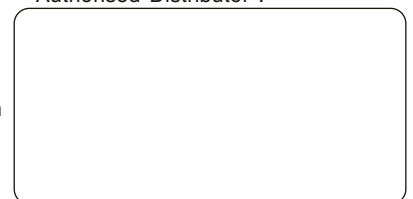
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