

CERAMIC DEGASSING TUBES

DIFFUSERS FOR REMOVING HYDROGEN GAS IN ALUMINIUM ALLOYS

Pyrotek ceramic degassing tubes eliminate included hydrogen in less processing time than open end tubes. The processing efficiency of these tubes also reduces the amount of injected nitrogen or other inert fluxing gas required.

The bubble pattern graphics on this datasheet demonstrate Pyrotek ceramic degassing tubes' effectiveness in dispersing gas in molten aluminium. In the photos the gas is being emitted in water, but the kinematic viscosity of water approximates that of molten aluminium.

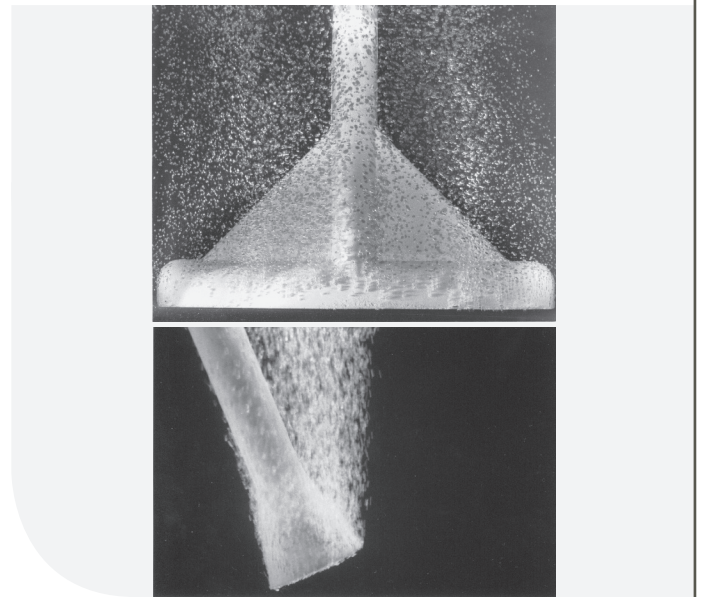
Injected gas tends to coalesce around plain tubes that are positioned vertically. Pyrotek diffusers are designed to release gas bubbles in a rising pattern which generates separate and individual bubbles that do not collect around the tube.

PHYSICAL PROPERTIES

Property	Value
Tee Width—mm (in)	457 (18)
Bell Bottom Diameter—mm (in)	102 (4)
Overall Lengths—mm (in)	460, 610, 910 (18.11, 24, 35.83)
Recommended Inert Gas Pressure—bar (psi)	0.483–1.034 (7–15)
Flow Rate—L/hr at 10–20 SCFH	1700

MATERIALS

Pyrocast FS73 AL



BENEFITS

- Aluminium attack resistant
- Thermal shock resistant
- Four to five times longer product life than graphite tubes
- Non-wetting surfaces minimize dross buildup
- Lower flow rate than graphite diffusers for equivalent degassing
- Various designs available for different applications—bell, “T” and “L” configurations

APPLICATIONS

- Side wells
- Crucibles
- Other small receptacles or vessels requiring degassing

NOTE: Pyrotek ceramic degassing tubes should be used with a pressure regulator and a flow gauge to avoid damage to the tee.

