

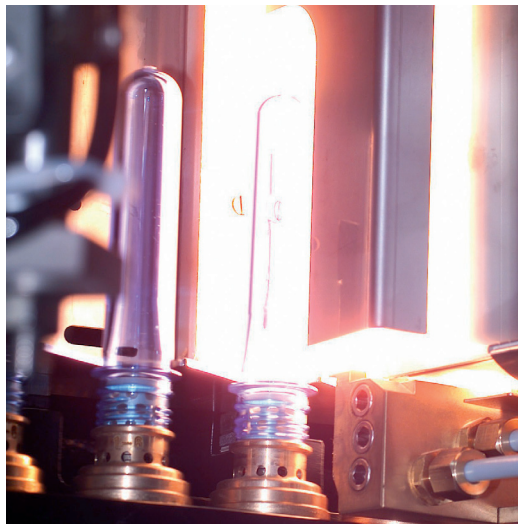
# Fast Reheat Additive U1

## Proven IR Absorber and Co-Catalyst

Main objective is adding value to the polyester packaging material production chain.

The proven additive U1 customizes the processing properties of PET packaging resin and the visual appearance of the produced bottles.

U1 is included in the FDA publication, "Everything Added to Food in the United States" (1994) and can therefore be generally recognized as absolutely safe (GRAS) for use in packaging material for food contact such as bottles, films and foils.



*Improved IR absorption in bottle blowing process*

- ▶ Easy adjustment of color (L, b-value) of PET resin according to customer's requirement
- ▶ Faster and highly uniform IR absorption during the bottle blowing process

## Benefits for the PET resin producer

- ▶ High-grade, competitive PET resin quality
- ▶ Enables product differentiation in the market

## Benefits for the PET bottle producer

- ▶ Reduced energy costs
- ▶ Higher heating efficiency
- ▶ Wider processing window
- ▶ Increased throughput possible

## Technology

- ▶ Applicable for continuous and batch production, for PTA and for DMT based processes
- ▶ Simple dosing at most appropriate position in polycondensation depending on customers plant configuration
- ▶ Application as co-catalyst jointly with the usual catalyst systems used for producing PET

- ▶ Complex preform shapes can be processed more reliably e.g. "hot-fill" types
- ▶ Simplified production of complex bottle types

## Form of delivery

- ▶ U1 is available as paste in 5kg canisters, 420 kg pallet weight.

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