

MATERIALS World

The voice of the materials, minerals and mining communities

Incorporating International Mining and Minerals

Electrical noise Meeting consumer demand

■ Ovens

Elite Thermal Systems has launched a system for annealing indium wafers under clean room conditions for use in optoelectronics. The system incorporates an Elite oven with a maximum temperature of 500°C. The oven uses a 110mm reaction tube with a 600mm heated length. Wafers are inserted into the heated zone of the system using a special carrier with a precision slide assembly that is passed into the heated zone of the reaction vessel by a gas-tight manual, push-pull rod mechanism. They are then processed under a high purity hydrogen/nitrogen gas mixture controlled by flow meters and micro filters.

■ ELITE THERMAL SYSTEMS

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Elite Thermal Systems, Leicestershire, has recently won the contract to develop a furnace for the clarification of gemstones. The furnace, destined for the Far East, will produce gemstones that are significantly clearer, thereby increasing their purity and value. The furnace will be of chamber design, incorporating a vertical elevator, and will operate at 1,800°C. A requirement of the design is close temperature control with an inert internal atmosphere. The gemstones will be elevated into the furnace where they will be held at a constant temperature, in a non-oxidising atmosphere, for a long cycle time.

■ ELITE THERMAL SYSTEMS

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