

Surgical and Examination Gloves with A.R.T.

Advanced Rheology Technology (A.R.T.) signifies a major process breakthrough in glove manufacture and quality. Constituent reformulation through Rheology (flow characteristics) modification has improved the latex film formation. The outcome is a significant decrease in latex film weakness with improved cure characteristics and reduced potential for pinhole formation.

Glove moulds are typically coated with a coagulating chemical to induce deposition and accretion of the latex

onto the mould. Regular, unmodified coagulant has the consistency of water and may not adequately seal mould defects (such as holes, pits and cracks). Defects can create weaknesses in the latex film which in turn form pinholes (fig 1a). Modification of the coagulant's Rheology increases its viscosity and imparts a gelatinous texture. This firmer coagulant coats the mould uniformly, seals the defects and improves film formation thus reducing the potential for pinhole development (fig 1b).

Fig 1a **Standard Process**

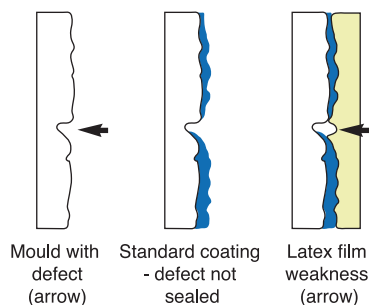
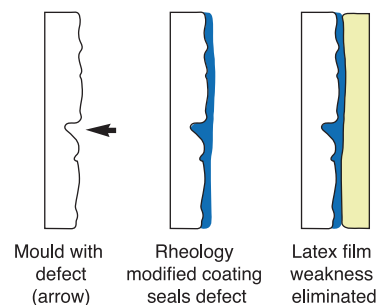
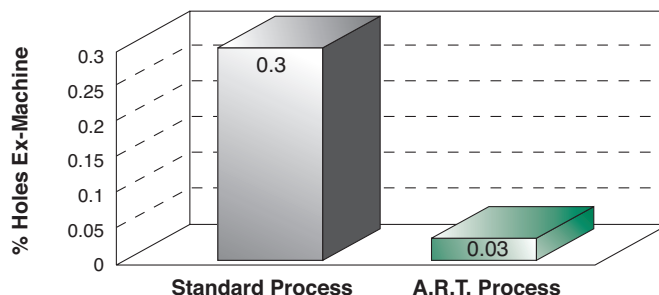


Fig 1b **A.R.T. Process**



The A.R.T. process reduces the percentage of holes in gloves 10 fold (fig. 2)

Fig 2 **Surgical Glove Quality Improvement**



A.R.T. – a process unique to Ansell Medical – applies to all natural Rubber Latex surgical gloves and coag dipped examination gloves