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Two-stage Process

The two-stage polymerization process is very well suited for all applications, especially high viscosity applications, for engineering plastics and for film production as well as for overproportional refeeding and for re-polymerization plants. Two-stage polymerization can be used for textile polymers in a single production line with DRP® and MCPA-technology.

Uhde Inventa-Fischer's two-stage polymerization consists of a pre-polymerizer and a VK-tube. The pre-polymerizer and the VK-tube are designed for optimum heat transfer. This, together with other design features, leads to a high conversion of the caprolactam. The pre-polymerizer works with overpressure, the VK-tube with underpressure or atmospheric pressure

The process can be used for a wide range of applications; it is reliable, very flexible and economical. The product is highly homogeneous.

We offer plant capacities of up to 500 t/d in one polymerization line.

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