

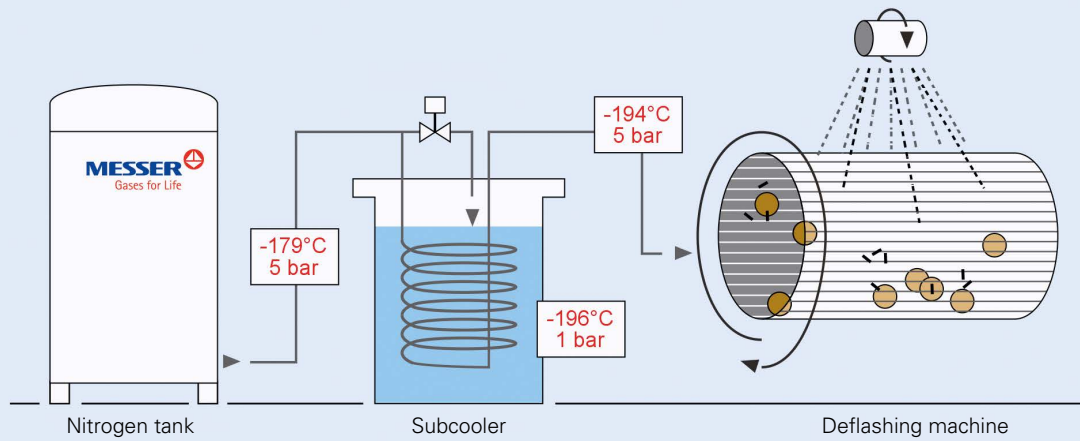
# Rubber deflashing with liquid nitrogen

Better deflashing performance with superior cooling quality



Your advantages at a glance:

- Increased process stability
- Reduced process durations (shorter precooling times)
- Extension of temperature range to  $-160^{\circ}\text{C}$
- Cost savings



Rubber parts before and after deflashing



The subcooler enhances the nitrogen's cooling quality.

## Reliable deflashing with lower costs

Rubber deflashing with liquid nitrogen – also referred to as cryogenic deflashing – is a tried and tested process. The liquid nitrogen has hitherto been conducted directly from the storage tank to the deflashing machine and vaporised there. The flash becomes brittle due to the effect of the low temperature of the evaporating nitrogen and can be removed using different methods such as tumbling or jet deflashing.

Materials that only become brittle at very low temperatures need a correspondingly greater quantity of liquid nitrogen and a longer cool-down period. However, special processing of the nitrogen enables superior cooling quality to be achieved, which further increases the productivity and efficiency of the blasting system.

The combination of subcooler and deflashing, for which Mewo and Messer have filed a patent application, will enhance the efficiency and economy of your deflashing system. The subcooler is used to adjust the liquid nitrogen to the required operating parameters, ensuring that it reaches the deflashing machine at almost -196 °C. In this way, full use can be made of the evaporative cooling effect. And that means shorter process times with reduced nitrogen consumption for stable and reliable deflashing.



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