

[ABS01]

## Inter-laboratory Trial for Cl<sub>2</sub>-Testing

Tineke Albers; Menno de Jonge

TNO/Proqares

The Interlaboratory Group on Exchange of Experience with Respiratory Protection (ILEE-RPE) was founded in 1993 as a vertical committee within the framework of the EC Directive 89/689. One of the objectives of this group is to ensure uniformity of results across all laboratories involved in the type testing of respiratory protective equipment.

For this purpose the ILEE-RPE group has organized several interlaboratory trials in the past: the so-called Round Robin Trials (RRT).

In this study the results of last year's trial are presented: the determination of the protection capacity of canisters using chlorine as a test agent.

In total 17 laboratories participated in this trial. The canisters were tested at one specific concentration, one specific flow and two different relative humidities. The breakthrough times were recorded for 0.5 ppm and 5 ppm breakthrough concentration. The results show high variations in breakthrough time between the different laboratories; i.e. the difference between the highest and lowest breakthrough times found is more than 25 minutes even when the most deviating laboratory is excluded. The causes for these large variations have not yet been identified, but will be thoroughly investigated.