

FINAL REPORT

**Outbursting
Scoping Study**

**C4034
March 1996**

9.2.5 ΔP Express Index

ΔP express method was developed (Paul, 1977) when the automatic equipment for K_t determination was as yet not available for use underground in the mines. In this equipment about 70 g of coal sample in the range of 0.25 - 0.5 mm for bituminous (2 - 3 mm for anthracite) is enclosed. The sample is evacuated for 2 minutes and then methane gas is allowed into it to raise the gas pressure to 2 bars as quickly as possible. The gas flow into the chamber is closed. The chamber is immediately connected to a manometer and change in pressure over time is determined. The gas pressure after an elapse of one minute is read out from the manometer which gives the ΔP_{exp} index.

The ΔP_{exp} index has been related to the ΔP_{0-60} value (Fig. 9.13) for anthracite samples and the corresponding value is 0.45.

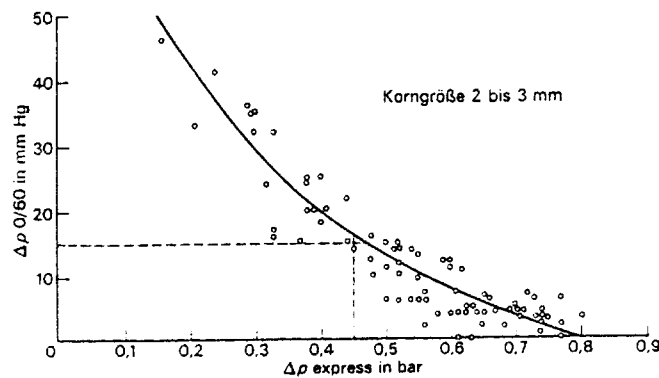


Fig. 9.13. Relationship between ΔP_{exp} and ΔP_{0-60} value (Paul, 1977)

Korngröße - Particle size.