

### Expanding additive X-PV

X-PV expanding additive is used to compensate for chemical shrinkage of cement in the WOC process, as well as to obtain the necessary volumetric expansion of cement stone. The controlled expansion of cement stone in a limited annular space leads to a more tight fit of cement to the rock, closure of the micro-gap at the cement / column contact and increased cement adhesion to the column.

X-PV additive can be used to combat gas migration over a cement / column micro-gap.

### Advantages

- Working concentration: 2% ~ 10% by weight of cement (BWOC).
- Concentration is selected depending on the density and temperature.
- Volumetric expansion up to 3% (not recommended more than 2%).
- Operating temperature range: 25–110 C
- Recommended density of cement solutions from 1.65 to 2.5 g / cm<sup>3</sup>
- Accelerates early curing. Reduces thickening time.

### Technical Parameters

Description	Specification*
Appearance	Grey powder
Volumetric expansion, % after 24h at 75°C	0.1≤Ex-Ex <sub>0</sub> ≤0.8
Cement stone strength, MPa(75°C, 24h)	≥ 24

\* Cement G, density 1.9 gr/cm<sup>3</sup>, fresh water, X-PV 3% BWOC

### Packing, transportation, handling

- 3-layer 25kg bags or under customer's request
- Keep in closed packing in dry and well ventilated places
- Do not damage packing.
- Shelf time 2 years.

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