

**PC 35M (V-L) 42,5N (Rulebook on cement quality)**  
**CEM II/B-M (V-L) 42,5N (EN 197-1)**

Cement is a hydraulic binder, i.e. finely ground inorganic material which, when mixed with water forms a paste, which sets and hardens by means of hydraulic reactions and processes, and which after hardening, retains its volume, strength and stability. Due to these features it is widely used in construction industry as the main ingredient of concrete and mortar.

PC 35M(V-L) 42,5N or CEM II/B-M (V-L) 42,5N is Portland Composite Cement that contains 65-79% clinker and 21-35% mixed addition of siliceous fly ash and limestone.

TYPICAL PROPERTIES OF CEMENT IN TCK*		REQUIREMENTS OF STANDARD Rulebook on cement quality**	REQUIREMENTS OF STANDARD EN 197-1***
SO <sub>3</sub> , %	1,9 ± 0,1	≤ 3,5	≤ 3,5
Cl, %	0,008 ± 0,002	≤ 0,10	≤ 0,10
Initial setting time, min	200 ± 20	≥ 60	≥ 60
Soundness (expansion), mm	1,0 ± 0,5	≤ 10	≤ 10
Early strength (2 days), MPa	22,0 ± 1,0	≥ 10,0	≥ 10,0
Standard strength (28 days), MPa	52,0 ± 2,0	≥ 42,5; ≤ 62,5	≥ 42,5; ≤ 62,5

\* these figures are typical, serve as a guide and are subject to change;

\*\* limit values for single results;

\*\*\* requirements are given as characteristic values.

## CERTIFICATES

Cement PC 35M (V-L) 42,5N / CEM II/B-M(V-L) 42,5N is produced in compliance with Rulebook on cement quality and EN 197-1.

For this product we have:

1. IMS Certificates in accordance with Rulebook on cement quality;
2. CE marking according to EN 197-1 issued by EUROCERT.

## CEMENT CHARACTERISTICS

- consistent quality (water-to-cement ratio, setting time, strength);
- normal growth of early and high standard strengths;
- optimal initial and final setting time;
- excellent workability and pumpability;
- moderate resistance to deterioration by aggressive environments (effect of sulphate, chloride and other water salts);
- the possibility of achieving high strength concrete.

## RECOMMENDATION FOR USE

Making wide range of concrete products; transport concrete; concrete mixed with different types of additives; all types of reinforced concrete structures; concrete exposed to moderate to aggressive environments.

Suitable for production of finishing materials in construction.

## TRANSPORTATION AND STORAGE

Cement is dispatched in 50 kg bags, wrapped up in PVC foil on 2 t palets, or as bulk.

During the transportation the product should be protected from contamination and moisture influence.

**Bulk cement** should be stored in dry, water resistant, clean silo, protected from contamination.

**Bagged cement** should be stored in dry room protected from moisture. If it is necessary that cement is being stored on open, bags should be put on dry palette and properly covered in order to avoid atmospheric influence.

Bags should be stored above ground on dry plank or palette.