

# INSEE DUM

Portland Cement Type-3

INSEE Dum is a High Early Strength Portland cement conforms to the Thai Industrial Standard for Portland Cement Type III TIS 15 - 1989, ASTM C 150 Type III and the British Standard B.S. 12 (For Rapid Hardening Portland Cement). Technically, its grain size is finer than the Ordinary Portland cement; hence high early strength can rapidly be developed.



## Cement Qualification

The INSEE Dum cement is recommended for the production of all types of pre-stressed concrete, such as pre-stressed piles, poles, and beams. It yields ultimate strength in 1-7 days. It is also highly recommended for construction works such as buildings, bridges, highways, and under water constructions, where high early strength concrete is essential.

## Recommendation

- The proportion of cement ex. sand, rock gravel or crushed stone and water should be purified.
- Use up all the mixed proportion within 1 hours

## Mixing Proportion

- Mix the volumetric proportion of INSEE Dum, rock gravel, sand and water as designed by Engineers.
- SCC is highly appreciated to give further support in technical information.

## Packaging

- Bulk Cement

## Technical Specification

Physical Qualifications	TIS 15-2547	INSEE Dum
1. Autoclave Expansion (% maximum)	0.8	0.001
2. Setting Time (Vicat Method) Initial (minutes)	≥45	65
Final (minutes)	≤375	145
3. Mortar Compressive Strength 1 days (MPa)	≥12	25
3 days (MPa)	≥24	35
28 days (MPa)	-	50