

INSEE Petch

Portland Cement Type-1

INSEE Petch is Ordinary Portland cement conforms to the Thai Industrial Standard for Portland cement type I TIS 15 - 1989, ASTM C 150 Type I and the British Standard B.S. 12 (for Ordinary Portland cement). Tests have shown that INSEE Petch cement to be a Portland cement of superior quality.



Cement Qualification

The INSEE Petch cement was specially developed by a team of cement experts. It suits for the production of high strength reinforced concrete, asbestos cement products, high quality concrete tiles, all kinds of concrete piles and poles, panels and parts of prefabricated buildings and pre-stressed concrete products. Products and construction works using INSEE Petch cement have been tested and generally accepted for their high quality. The uniformity of the cement's hardening process and strength forming are generally accepted and officially accredited by the national standardization authority.

Recommedation

- The proportion of cement ex. sand, rock gravel or crushed stone and water should be purified.
- Keep the cement under shade and cool-dry area.
- Use up all the mixed proportion within 2 hours

Mixing Proportion

Mix the volumetric proportion of INSEE Petch, rock gravel, sand and water as follow;

Type of Concrete	Mixing Proportion (by volume)			
	INSEE Petch	Sand	Rock	Water
Low Strength (approx. 180 ksc)	1	3	4	¾
Medium Strength (approx. 280 ksc)	1	2	3	¾
High Strength (approx. 380 ksc)	1	2	2	¾

Packaging

- Bag Cement 50 kg.
- Bulk Cement

Technical Specification

Physical Qualifications	TIS 15-2547	INSEE Petch
1. Blaine Air Permeability (sq.m./kg.)	≥280	336
2. Autoclave Expansion (% maximum)	0.8	0.001
3. Setting Time (Vicat Method)		
Initial (minutes)	≥45	110
Final (minutes)	≤375	205
4. Mortar Compressive Strength		
3 days (MPa)	≥12	27
7 days (MPa)	≥19	33
28 days (MPa)	≥28	42