

INSEE Petch Ngarn Lor

Composite Portland cement for concrete casting and molding works

INSEE Petch Ngarn Lor has been improved such as finer texture, enhanced workability, more cohesive strength, and less water segregation and less bleeding. The superior quality facilitates the concrete casting, demanding process including finer concrete product surface. Specially suitable for casting and molding concrete products such as drainage pipes, concrete blocks, gully, concrete pile, concrete fencing post, pavement and concrete slap.



Cement Qualification

INSEE Petch Ngarn Lor conforms to the requirements of ASTM C 1157 type GU (Hydraulic cement for general construction)

- Strong and durable.
- Smooth and even final concrete product surface provided finer cement texture.
- High cohesive property suitable for blocking and molding, sharp edged decorative concrete, less fissure repairing.
- High water retention capability, reduced bleeding and segregation.
- Less tendency for concrete surface fracture.
- “Green Product” reduced CO2 emission throughout the cement production process.

Recommendations

- 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 with in 2 hours.
- Strong and durable.

Mixing Proportion

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

Type of Structure	Mixing Proportion (by volume)				
	INSEE Petch Ngarn Lor	Course sand	Dust rock	Rock	Water
Drainage pipe	1	2	-	3	½
Concrete block	1	-	12-14	-	½
Small reinforced concrete	1	2	-	4	½

Packaging

- Bag Cement 50 kg.
- Bulk Cement

Technical Specification

Physical Qualifications	TIS 15-2555	INSEE Petch Ngarn Lor
1. Blaine Air Permeability (sq.m./kg.)	>280	361
2. Autoclave Expansion (% maximum)	0.8	0.033
3. Setting Time (Vicat Method)		
Initial (minutes)	>45	130
Final (minutes)	<375	221
4. Mortar Compressive Strength		
3 days (MPa)	>12	27
7 days (MPa)	>19	33
28 days (MPa)	>28	41