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## NS OPC

ORDINARY PORTLAND CEMENT







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Cement Industries of Malaysia Berhad (CIMA) is one of Malaysia's largest cement manufacturers and well known for producing and distributing high quality cement since 1975, ready - mixed concrete, aggregates & premix and related products.



## NS ORDINARY PORTLAND CEMENT

**Ordinary Portland Cement (OPC)** is the most common cement used in the construction industry throughout the world. However, to address the ever challenging construction industry, Cement Industries of Malaysia Berhad (CIMA) has formulated **NS OPC**. Made using carefully selected raw materials and strict manufacturing processes, CIMA strives to ensure that we serve you the best products for your construction needs.

**NS OPC complies with**  
**MS EN 197-1:2014 CEM I 52.5 N**  
**ASTM C150/C150M - 2011 TYPE II - MH**

### Application

**NS OPC** is suitable for most types of construction including (but not limited to) building superstructures, infrastructures, bridges and piers, pavements, pre-cast concrete structures and also wall finishes.

### Properties

**NS OPC** is produced under 52.5N strength class to ensure optimum strength with any type of construction. The superior strength also ensures peace of mind throughout every stage of the building life cycle.

### Availability

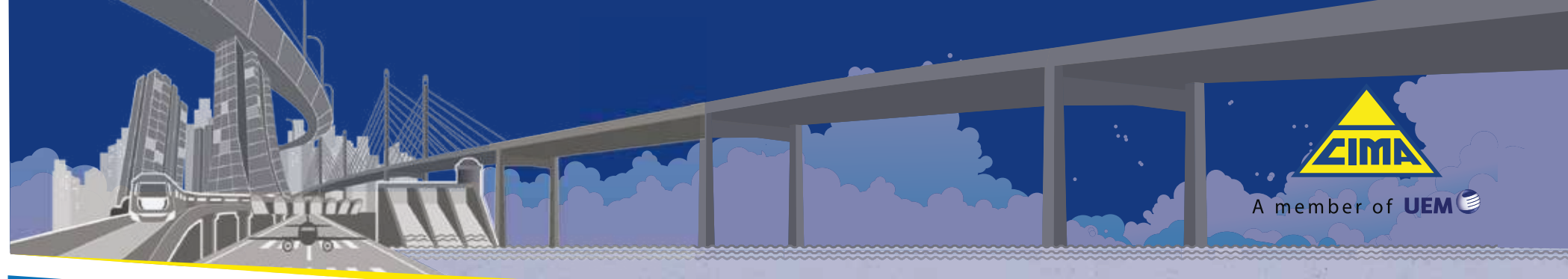
**NS OPC** is produced by Negeri Sembilan Cement Industries (NSCI), Bahau Plant in Negeri Sembilan and currently available in bulk delivery.



MS EN 197-1 : 2014  
 CERTIFICATION NO : PN006801



ASTM C 150M -2011  
 CERTIFICATION NO : PN006802



### Specification

PROPERTIES			UNIT	MS 197-1 2014 CEM I	ASTM C150M 2011 TYPE II	NS OPC TYPICAL
CHEMICAL PROPERTIES						
Sulphur Trioxide (SO <sub>3</sub> )			(%)	4.0 max.	3.0 max.	2.73
Chloride (Cl)			(%)		0.1 max.	0.011
PHYSICAL PROPERTIES						
Specific Surface by Blaine			(cm²/g)			3730
Setting Time by Vicat		Initial	(mins)	45 min.		153
		Final	(mins)			184
Expansion			(mm)		0.8 max.	0.2
Heat of Hydration			(cal/g)		70.0 max.	66.5
Compressive Strength (CEM I)	Mortar Prism	2 Days	(MPa)	20.0 min.		27.4
		28 Days	(MPa)	52.5 min.		56.1
	Mortar	3 Days	(MPa)		7.0 min.	28.7
		7 Days	(MPa)		12.0 min.	34.22
		28 Days	(MPa)		22.0 min.	44.8

### Superior Quality

#### Moderate Heat of Hydration

**NS OPC** complies with ASTM C150/150M TYPE II - MH cement classification which means that it has a moderate heat of hydration properties. This reduces the risk of thermal cracks in concrete.

#### Moderate sulfate resistance

**NS OPC** has moderate sulfate resistance properties that allows the cement to be used under a harsher condition without compromising its strength and durability.

#### Lower alkali content

**NS OPC** has a lower alkali content which helps to reduce the potential for Alkali - Silica reaction in concrete.

#### Compatibility with admixture

**NS OPC** is compatible with all admixtures that complies to ASTM C494M -2017 (Standard Specification for Chemical Admixtures for Concrete)

### Quality Assurance

- Our products undergo stringent quality control processes at every stage of the production to ensure that they are consistent in quality and satisfies our customers' needs.
- Our production facilities are certified with ISO9001: 2015 , ISO 14001: 2015 and ISO 18001: 2007
- Our testing facilities are accredited with MS ISO/IEC 17025