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CORPORATE OFFICE

Cement Industries of Malaysia Berhad

197201000294 (11986-T)
Annexe 2, Persada PLUS, Persimpangan Bertingkat Subang
KM 15, Lebuhraya Baru Lembah Klang
47301 Petaling Jaya, Selangor, Malaysia

Tel : +603 2733 1188
Fax: +603 7665 0018

Marketed by:

Negeri Sembilan Cement Industries Sdn Bhd

199401025733 (311414-H)
Annexe 2, Persada PLUS, Persimpangan Bertingkat Subang
KM 15, Lebuhraya Baru Lembah Klang
47301 Petaling Jaya, Selangor, Malaysia

Tel : +603 2733 1188
Fax: +603 7665 0018



NS OPC

ORDINARY PORTLAND CEMENT



Additional information is available at
www.cima.com.my





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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

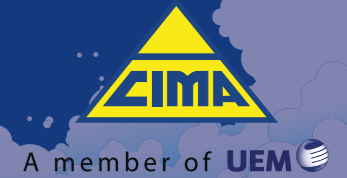
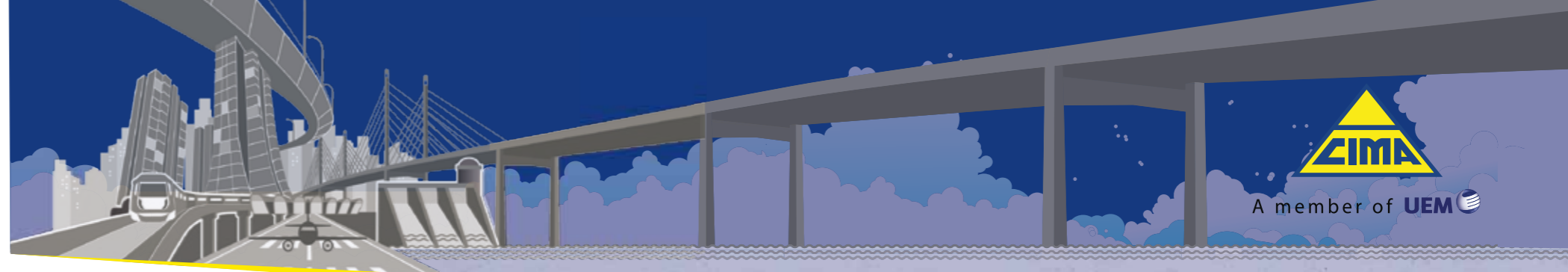
NS OPC is produced by Negeri Sembilan Cement Industries (NSCI), Bahau Plant in Negeri Sembilan and currently available in bulk delivery.



SIRIM
 MS EN 197-1 : 2014
 CERTIFICATION NO : PN006801



SIRIM
 ASTM C 150M -2011
 CERTIFICATION NO : PN006802



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Specification

PROPERTIES	UNIT	MS 197-1 2014 CEM I	ASTM C150M 2011 TYPE II	NS OPC TYPICAL	
CHEMICAL PROPERTIES					
Sulphur Trioxide (SO ₃)	(%)	4.0 max.	3.0 max.	2.73	
Chloride (Cl)	(%)		0.1 max.	0.011	
PHYSICAL PROPERTIES					
Specific Surface by Blaine	(cm ² /g)			3730	
Setting Time by Vicat	Initial	45 min.		153	
	Final			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