



AL-WAFAA
FOR TRADING
EGYPTIAN CEMENT EXPORT

ORDINARY PORTLAND CEMENT (OPC)

CEM I 42.5N

High quality Ordinary Portland Cement manufactured in Egypt using premium raw materials and advanced technology to ensure consistent performance and durability for all construction applications.



CONSISTENT
QUALITY



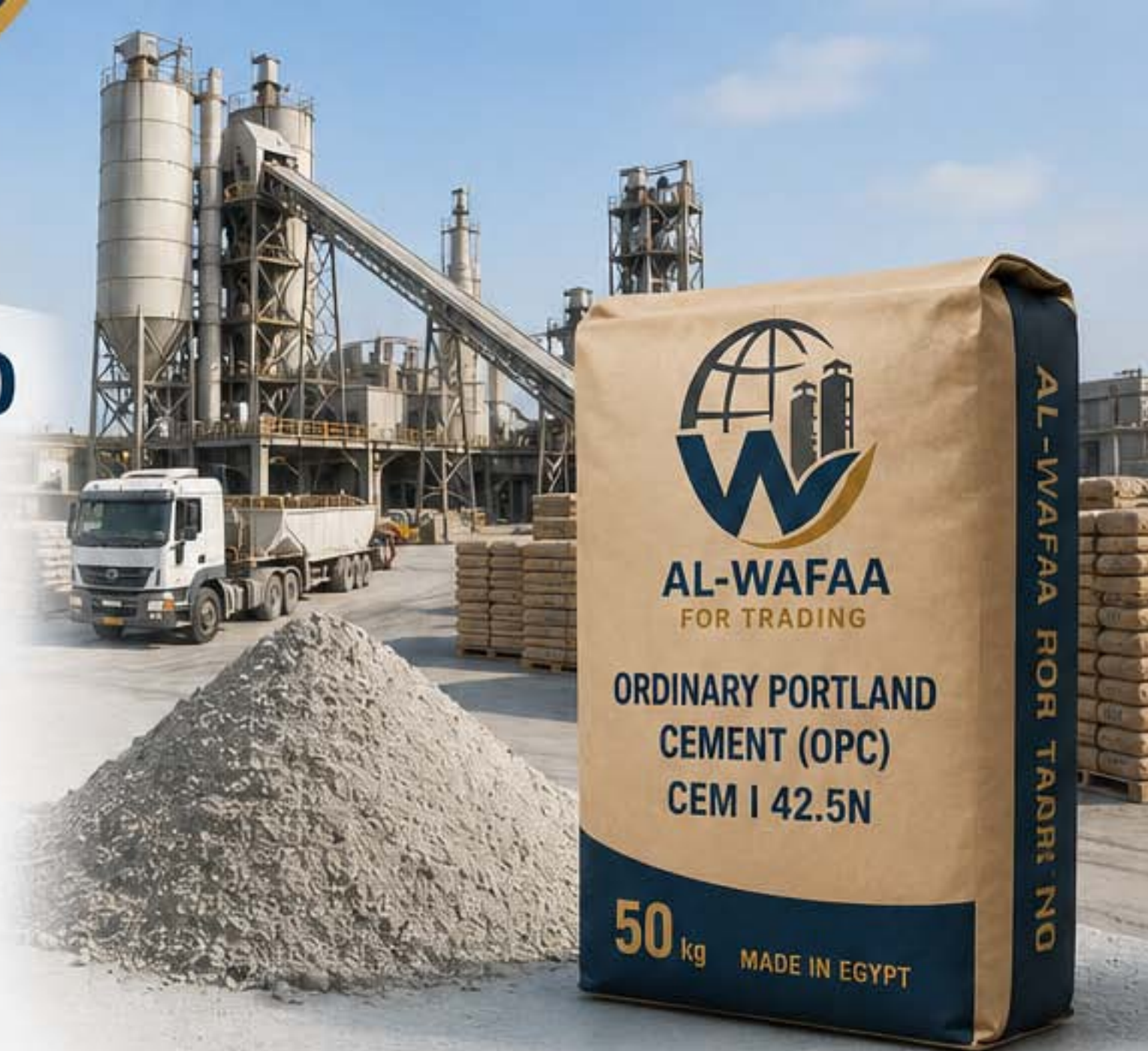
ASTM & EN
COMPLIANT



GLOBAL
SUPPLY



RELIABLE
PARTNER



APPLICATIONS



BUILDINGS



BRIDGES



ROADS



PRECAST



READY MIX
CONCRETE



MARINE
STRUCTURES

TECHNICAL SPECIFICATIONS

PROPERTY	REQUIREMENT (CEM I 42.5N)	TEST METHOD
Standard	EN 197-1 / ASTM C150	-
Compressive Strength (2 Days)	≥ 20 MPa	EN 196-1 / ASTM C109
Compressive Strength (28 Days)	≥ 42.5 MPa ≤ 62.5 MPa	EN 196-1 / ASTM C109
Initial Setting Time	≥ 60 min	EN 196-3 / ASTM C191
Final Setting Time	≤ 600 min	EN 196-3 / ASTM C191
Soundness (Le Chatelier)	≤ 10 mm	EN 196-3 / ASTM C151
Fineness (Blaine)	≥ 320 m ² /kg	EN 196-6 / ASTM C204
Loss on Ignition	≤ 5.0 %	EN 196-2 / ASTM C114
Sulphate (SO ₃)	≤ 3.5 %	EN 196-2 / ASTM C114
Chloride (Cl ₂)	≤ 0.10 %	EN 196-2 / ASTM C114

CHEMICAL COMPOSITION (TYPICAL %)

CaO	60.0 – 65.0
SiO ₂	19.0 – 23.0
Al ₂ O ₃	4.0 – 6.0
Fe ₂ O ₃	2.0 – 4.0
MgO	1.0 – 2.5
SO ₃	2.0 – 3.5
Na ₂ O _{eq}	≤ 0.60
Cl ⁻	≤ 0.10
Insoluble Residue	≤ 1.5

