

# Product Catalog

**NTG**  
NOVY TRADE GATE

## Cement



# Portland Clinker

- Product identifier

Portland Cement Clinker

Conforms to standard NA-442-2013 (197-1 EN)

- Relevant identified uses of the substance

Portland cement clinker is used for the production of common cements or other hydraulic binders in industrial installations. Cement and hydraulic binders are used in production of building materials and in construction by professional users or consumers.

- Chemical property

Elements	Content %
CaO	≥65 %
SiO <sub>2</sub>	21 % - 22.50 %
Al <sub>2</sub> O <sub>3</sub>	3.5 % - 5.5 %
Fe <sub>2</sub> O <sub>3</sub>	3.5 % - 5.5 %
SO <sub>3</sub>	≤0.4 %
Apparent density g/l	Min: 1180 g/l Max: 1300 g/l

- Mineral composition (Bug)

Designation	Guaranteed value %
C <sub>3</sub> S	60±3
C <sub>2</sub> S	≤20
C <sub>3</sub> A	7.5 -3
C4AF	15-11



# Cement CEM II 32.5N

- Product identifier

Portland Cement CEM II 32.5N

Conforms to standard NA-442-2013 (197-1 EN)

- Composition

The performance characteristics are achieved with different formulations to optimize the use of available raw materials. CEM II 32.5N is available in bulk or 25/50 kg bags.

- Chemical properties

CaO	≥65 %
SiO <sub>2</sub>	21 % - 22.50 %
Al <sub>2</sub> O <sub>3</sub>	3.5 % - 5.5 %
Fe <sub>2</sub> O <sub>3</sub>	3.5 % - 5.5 %

- Physical properties

Normal consistency	26 to 28 %
Start of setting	≥ 75 min
End of cohesion	200 to 350 min
Fineness	3004-4500 (cm <sup>2</sup> /g)

- Mineral composition (Bug)

C <sub>3</sub> S	60±3
C <sub>3</sub> A	3% - 7.5%

- Strength performance

At 02 days of age: 16.0 Mpa

At 28 days of age: 32.5 Mpa



# Cement CEM II 42.5N

- Product identifier

Portland Cement CEM II 42.5N

Conforms to standard NA-442-2013 (197-1 EN)

- Composition

The performance characteristics are achieved with different formulations to optimize the use of available raw materials. 80 to 94% Portland clinker / 6 to 20% maximum of limestone  
CEM II 42.5N is available in bulk or 25/50 kg bags.

- Chemical properties

Standard NA 442	Our cement
SO <sub>3</sub> : ≤3.5 %	SO <sub>3</sub> < 2.00 %
C1 : ≤ 0.1 %	C1- < 0.1 %

- Physical properties

Standard NA 442	Our cement
Start of setting ≥60mn	Start of grip > 60mm
Hot stability ≤10 mm	Stability < 10mm
Heat of hydration ≤ 270 d/g	LH ≤ 250 j/g

- Strength performance

The mechanical compressive strengths, measured on test specimens of normal mortr at 28 days of age in accordance with the NA 234 standard, give the following results:

Lower limit (Li): ≥42.5 Mpa  
Upper limit (Ls): ≤62.5 Mpa

Guaranteed limit values:

At 02 days of age: 10.0 Mpa  
At 28 days of age: 42.5 Mpa



# Cement CEM II 42.5R

- Product identifier

Portland Cement CEM II 42.5R

Conforms to standard NA-442-2013 (197-1 EN)

- Composition

The performance characteristics are achieved with different formulations to optimize the use of available raw materials. 80 to 94% Portland clinker / 6 to 20% maximum of limestone  
CEM II 42.5R is available in bulk or 25/50 kg bags.

- Chemical properties

Standard NA 442	Our cement
SO <sub>3</sub> : ≤4 %	SO <sub>3</sub> < 2.00 %
C1 : ≤ 0.1 %	C1- < 0.1 %

- Physical properties

Standard NA 442	Our cement
Start of setting ≥60mn	Start of grip > 60mm
Hot stability ≤10 mm	Stability < 10mm
Heat of hydration ≤ 270 d/g	LH ≤ 270 j/g



- Strength performance

The mechanical compressive strengths, measured on test specimens of normal mortr at 28 days of age in accordance with the NA 234 standard, give the following results:

- o Lower limit (Li): ≥42.5 Mpa
- o Upper limit (Ls): ≤62.5 Mpa

Guaranteed limit values:

At 02 days of age: 20.0 Mpa  
At 28 days of age: 42.5 Mpa



# Cement CEM I 52.5N

- Product identifier

Portland Cement CEM I 52.5N

Conforms to standard NA-442-2013 (197-1 EN)

- Composition

The performance characteristics are achieved with different formulations to optimize the use of available raw materials. CEM I 52.5N is available in bulk or 25/50 kg bags.

- Chemical properties

SO <sub>3</sub>	<2,5 %
CL	<0,1 %
MgO	<1%
FL (Fire loss)	1.5% -0.5%

- Physical properties

Normal consistency	26 to 28 %
Start of setting	≥ 45 min
End of cohesion	60± 230 min
Fineness	3200-3800 (cm <sup>2</sup> /g)

- Mineral composition (Bug)

C <sub>3</sub> S	60±3
C <sub>3</sub> A	3% - 7.5%

- Strength performance

At 02 days of age: 20.0 Mpa

At 28 days of age: 52.5 Mpa



# Cement CEM I 42.5N SR5

- Product identifier

Portland Cement CEM I 42.5N SR5  
Conforms to standard NA-442-2013 (197-1 EN)

- Composition

The performance characteristics are achieved with different formulations to optimize the use of available raw materials. CEM I 42.5N SR5 is available in bulk or 25/50 kg bags.

- Chemical properties

SO <sub>3</sub>	<2,5 %
CL	<0,1 %
MgO	<1%
FL (Fire loss)	1.5% -0.5%

- Physical properties

Normal consistency	26 to 28 %
Start of setting	≥ 45 min
End of cohesion	60± 230 min
Fineness	3200-3800 (cm <sup>2</sup> /g)

- Mineral composition (Bug)

C <sub>3</sub> S	60±3
C <sub>3</sub> A	3% - 7.5%

- Strength performance

At 02 days of age: 20.0 Mpa  
At 28 days of age: 42.5 Mpa



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