

4. DRY D1 NG - TECHNICAL DATA

4.1 PRODUCT IDENTIFICATION

Appearance:	powder
Color:	white - beige
Odor:	odorless
pH:	12,3 (Ca(OH) ₂ saturated solution at 20°C)
Chloride content:	none
Melting point:	> 2400 C°
Relative density:	3,0 - 3,3
Main characteristic:	Shrinkage reducing admixture and shrinkage compensating admixture
Secondary characteristic:	Improvement of impermeability and mechanical strengths for special and high performance concrete.
Shelf life:	12 months if the product is maintained into the sealed original packaging.

4.2 PHYSICAL CHARACTERISTICS

FEATURES		DRY D1 NG
Average density	g/cm ³	≈ 3 (at 20 °C)
Bulk density	Kg/dm ³	1,2 – 1,4
Residue on 150µ standard sieve	%	< 5
Residue on 75µ standard sieve	%	20 – 35
Loss on ignition	%	< 2
Total alkalinity (as CaO)	%	> 90

4.3 QUALITY CONTROL

Reactivity (in water) - water/product ratio=3:1 (acc. to EN 459-2 mod.)

RESPONSE TIME	DRY D1 NG	
	Temperature (°C)	RI (*)
0	20	
5'	30 - 45	
10'	40 - 60	950 - 1250
15'	45 - 70	1250 - 2000
20'	50 - 72	
25'	55 - 75	
30'	60 - 78	3200 - 4300

(*) RI = reactivity index (internal production parameter)

4.4 Shrinkage and Expansion characteristic

DRY D1 NG – Shrinkage Reducing (Modified ASTM C157)	< -0,020% (56 Days)
DRY D1 NG – Shrinkage Compensating (ASTM 878C)	> 0,050% (at 3-4 Days)