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TNPL ORDINARY PORTLAND - Specifications

Chemical Properties:

S No.	Property	Specification
1	Loss on Ignition, %	0.8 - 1 (5.0 Max)
2	Insoluble Residue, %	0.5 - 0.8 (4.0 Max)
3	Chloride Content, %	0.02 (0.1 Max)
4	Magnesia (MgO), %	1.4 - 1.8 (6.0 Max)
5	Sulphuric Anhydride(SO ₃), %	1.8 - 2.2 (3.5 Max)

S No.	Property	Specification
1	Fineness (Blaines), M2//Kg	300 - 350 (225 min)
2	Le - Chatelier Expansion, mm	1 - 2 (10 max)
3	Autoclave Expansion, %	0.1 (0.8 max)
4	Setting Time-Initial, minutes	90 - 120 (30 min)
5	Setting Time Final, minutes	150 - 180 (600 max)
6	Compression Strength 3days, MPa	30 - 32 (23 min)
7	Compression Strength 7days, MPa	38 - 43 (33 min)
8	Compression Strength 28days, MPa	48 - 53 (43 min)

Values given in parenthesis are Bureau of Indian Standards (BIS) requirements