

Product Specifications 150 MPa

Category	Description	Zhuliyuan UHPC
1. Common characteristics	Maximum aggregate size (Dupper)	0.6 mm
	Fiber length (Lf)	12 mm - 15 mm
	Fiber Type	High-strength Steel fiber
	Pouring method	Self-leveling pouring / Moulding
2. Heat treatment	Heat treatment type	Steam curing optional
3. Properties of freshly mixed concrete	Target value for slump expansion	700 mm
	Consistency Grade	Cv
	Operating time at 20°C	30-60 minutes
	Air content	≤ 2.0%
	Maintenance Conditions	Cure at 60°C-80°C for 48 hours
4. 28-day mechanical properties	Characteristic compressive strength (fck)	≥150 MPa
	Flexural strength	20-25 MPa
	Average tensile elastic limit (fctm,el)	≥ 12MPa

	Tensile elastic limit eigenvalue (fctk,el)	≥ 10MPa
	Average strength after cracking (fct,fm)	10MPa
	Strength characteristic value after cracking (fct,fk)	8 MPa
	Tensile behavior grade	T2
5. 90.day durability test results	Average elastic modulus (Ecm)	≥ 50 GPa
	Porosity	≤ 4.0% (Level Dp+)
	apparent gas permeability coefficient	≤ 5× 10 ⁻²⁰ m ²
	Apparent diffusion coefficient of chloride ions	≤ 0.2 × 10 ⁻¹² m ² /s
6. Properties in hardened state	density	2450 kg/m ³
	linear expansion coefficient	10 μm/m · °C
	Total contraction over 90 days	0.5 ± 0.1 mm/m
7. Others	Poisson's ratio	0.20
	Creep coefficient	0.3
	Fire Reaction Level	A1

