



TDS 130Mpa UHPC Premix

Category	Description	Zhuliyuan UHPC
1.Common characteristics	Maximum aggregate size (Dupper)	0.6 mm
	Fiber length (Lf)	12mm
	Fiber Type	Steel fiber/organic fiber
	Pouring method	Self-leveling pouring
2.Heat treatment	Heat treatment type	/
3.Properties of freshly mixed concrete	Target value for slump expansion	650mm
	Consistency Grade	Cv
	Operating time at 20°C	30-90 minutes
	Air content	2.5%
	Maintenance Conditions	Cure at 60°C for 48 hours
	Characteristic compressive strength (fck)	130 MPa
4.28-day mechanical properties	Average tensile elastic limit (fctm,el)	≥8MPa
	Tensile elastic limit eigenvalue (fctk,el)	≥7MPa
	Average strength after cracking	6 MPa

Category	Description	Zhuliyuan UHPC
	(fct, fm)	
	Strength characteristic value after cracking(fct, fk)	6 MPa
	Tensile behavior grade	T1
	Average elastic modulus(Ecm)	50 GPa
5.90-day durability test results	Porosity	$\leq 5.0\%$ (Level Dp+)
	apparent gas permeability coefficient	$\leq 8 \times 10^{-19} \text{ m}^2$
	Apparent diffusion coefficient of chloride ions	$\leq 0.4 \times 10^{-12} \text{ m}^2/\text{s}$
6.Properties in hardened state	density	2400 kg/m ³
	linear expansion coefficient	10 $\mu\text{m}/\text{m}/^\circ\text{C}$
	Total contraction over 90 days	0.6 $\pm$ 0.1 mm/m
7.Others	Poisson's ratio	0.19
	Creep coefficient	0.4
	Fire Reaction Level	A1