

HTC 10/15-40

Carbon Grid Reinforcement

High-strength | Service temperature up to 40 °C | Corrosion-free

Overview

Bidirectional carbon grid made of 48K carbon rovings in longitudinal direction and 12K carbon rovings in transverse direction.

Designed for textile-reinforced concrete (TRC) applications requiring high tensile capacity in the primary load direction with optimised crack control and reduced reinforcement mass..



Technical Data

Property	Value	Unit	Test method
Material (lengthwise)	Carbon 48K - wrapped	-	-
Material (crosswise)	Carbon 12K	-	-
Density of carbon fiber	1.78	g/cm ³	-
Binding thread	PP 110 dtex	-	-
Weight (uncoated / coated) approx.	320 / 380	g/m ²	-
Threads per meter (L / C)	78 / 55	threads/m	-
Cross-sectional area (L / C)	142 / 25	mm ² /m	-
Grid opening	15 × 10	mm	-
Tensile strength (L / C)	362 / 71	kN/m	DIN EN ISO 3341
Tensile strength (fiber) (L / C)	2551 / 2847	N/mm ²	DIN EN ISO 3341
Strain at break (L / C)	1.71 / 1.27	%	DIN EN ISO 3341
Impregnation / Coating	Styrene-Butadiene	-	-
Max. service temperature	40	°C	-
Roll width	300	cm	-
Roll length	Custom	-	-

DISCLAIMER: Technical data is based on current product specifications. Users are responsible for verifying suitability for the intended application. Product specifications may change without notice. Current Terms and Conditions apply.