

HTC 21/21-80

Carbon Grid Reinforcement

High-strength | Temperature resistant up to 80 °C | Corrosion-free

Overview

Bidirectional carbon grid made of 48K carbon rovings. Designed for textile-reinforced concrete (TRC) applications where high tensile capacity, crack control, and long-term durability are required.



Technical Data

Property	Value	Unit	Test method
Material (lengthwise)	Carbon 48K - wrapped	-	-
Material (crosswise)	Carbon 48K	-	-
Density of carbon fiber	1.78	g/cm ³	-
Binding thread	PES 167 dtex	-	-
Weight (uncoated / coated) approx.	255 / 295	g/m ²	-
Threads per meter (L / C)	39 / 39	threads/m	-
Cross-sectional area (L / C)	71 / 71	mm ² /m	-
Grid opening	22 × 22	mm	-
Tensile strength (L / C)	214 / 230	kN/m	DIN EN ISO 3341
Tensile strength (fiber) (L / C)	3020 / 3250	N/mm ²	DIN EN ISO 3341
Strain at break (L / C)	1.71 / 1.47	%	DIN EN ISO 3341
Impregnation / Coating	Acrylate	-	-
Max. service temperature	80	°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.