

CORMASTER CN1

The lightweight material made from Kevlar® N636 with weight savings of up to 20 % for aeronautical applications.



CORMASTER
ADVANCED COMPOSITES



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ADVANTAGES

- Superior compressive properties, 20% higher than nomex® honeycombs
- Extremely high shear moduli, from 1,5 to 3 times increase
- Low moisture absorption
- Excellent fatigue properties
- High hot / wet characteristics

DELIVERY TIME

- A lot of CORMASTER honeycomb types are available on stock. Delivery time on request.

MATERIAL

- Non metallic structures made from para-aramid N636 paper sheets (manufactured by Dupont de Nemours)
- Bonded together and coated with a phenolic resin


APPLICATION

- Ideal use in the aeronautical applications where weight savings are permanent requirements
- Excellent strength and stiffness allows use of lower density cores in the structural sandwich applications

CORMASTER CN1

Typical technical data



CORMASTER TYPE		CN1 weight osy	Bare compressive Strength (MPa)	Shear strength (MPa)		Shear modulus (MPa)		
				L	W	L	W	
HONEYCOMB DESIGNATION								
	CN1 - 3,2	-40	0,9	1,74	1,34	0,74	135	48
		-48	0,9	2,67	1,95	0,93	132	59
		-64	0,9	3,84	2,48	1,43	136	67
		-96	1,2	8,82	3,11	2,23	192	96
CN1 - 4,0	-72	1,2	5,23	2,60	1,90	144	88	
	-96	1,8	8,30	4,45	2,93	222	119	
CN1 - 4,8	-28	0,9	0,94	0,72	0,46	72	36	
	-32	0,9	0,98	0,84	0,52	80	39	
	-37	0,9	1,45	1,28	0,63	89	41	
	-48	1,2	2,20	1,63	0,91	114	59	
CN1 - 9,6	-40	1,14	1,14	1,19	0,75	82	43	

Remark: osy = ounce per square yard (1 osy = 33,91 gr/m²)

Honeycombs density: the allowable tolerance is +/- 10 % from the nominal density. These mechanical properties are only representative. If required, specification minima must be confirmed by SCHÜTZ in writing.

To submit an offer we need the CORMASTER type with cell size and density together with the dimensions (width, length and thickness) of the required honeycomb product. Please notice, that it is very important to consider the different properties for L- and W-Shear. Do not hesitate to contact us, if you have particular requirements.

CN1 - 3,2		- 40
para-aramid N636 paper sheets coated with resin	Cell size in mm	Density in kg/m ³



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