

# ABZAC tubes and cores for the paper industry

The AZ HR range

PAPER MILL CORE

## Applications



The tube serves as a support for the winding and unwinding of paper. The manufacturing process of paper tubes and cores enables the **high speed winding, unwinding and printing of heavy paper rolls.**

ABZAC's technical approach has enabled the development of a range of tubes designed to meet the specific requirements of the industry:

- > **Crush resistance:** this enables the tube to withstand the weight of the wound material during winding and storage.
- > **Dynamic load resistance:** this is the capacity of the tube to withstand the variations in speed and weight of the rolls during winding and unwinding.
- > **The E-modulus:** this value makes it possible to determine the critical speed as from which the tube starts to vibrate and resonate.

ABZAC has its own research laboratory enabling the analysis, adjustment and control of all these parameters.

The manufacturing process enables the control and reproducibility of the geometric criteria (straightness, roundness) and of the resistance performance levels.

3" - Ø 76 Thickness 15	Un	HR A3	HR A4	HR A5	HR A7
Inside	mm	3"-76 mm	3"-76 mm	3"-76 mm	3"-76 mm
Outside	mm	4,19"-106,5 mm	4,19"-106,5 mm	4,19"-106,5 mm	4,19"-106,5 mm
Max. deflection	mm/ml	2	2	2	2
E-modulus	N/mm <sup>2</sup>	2500	2800	3200	4000
Dynamic load	DaN/ml	1000	1200	1500	2000
Crush resistance	N/100mm	3000	3500	4500	5500
Weight	Kg/ml	3	3,2	3,7	4,15
Humidity	% H2O	8	8	8	8

## Customer advantages

- > Customize design of the tube to match specifications.
- > Adaptation of resistance performance levels to match the requirements of the paper manufacturer, processor or printer.
- > Selection of the raw materials to reduce the environmental impact.



France : 3 Moulin d'Abzac - 33230 Abzac - Tel +33 5 57 49 39 00 - abzac@abzac.fr

Spain: Tel +34 93 779 47 70 - abzac@abzaciberica.es

Romania: Tel +40 244 434 293 - abzac@abzac.ro

Canada, USA, Mexico: 2945 Bld Lemire - Drummondville Quebec - Canada J2B 6Y8 - Tel +1 819 477 50 30 - abzac@abzac.ca