

SORBERPOLY™ 3D AGC

polyester sound absorber with aluminium foil glass cloth facing

Sorberpoly 3D AGC is a lightweight specialised acoustic textile made from ultra-fine polyester fibres to deliver excellent sound absorbing and thermal insulation properties.

Sorberpoly 3D AGC has excellent fire and thermal insulation performance which is often required in rail and marine applications. This is achieved thanks to the durable, highly reflective aluminium faced glass cloth facing.

Manufactured from 100% recyclable polyester fibre, Sorberpoly 3D AGC is easy to use and is ideal for cavities and voids within heavy transport vehicles, trains and large boats. It's simple to install, safe to handle, and easily cut using scissors or a utility knife.

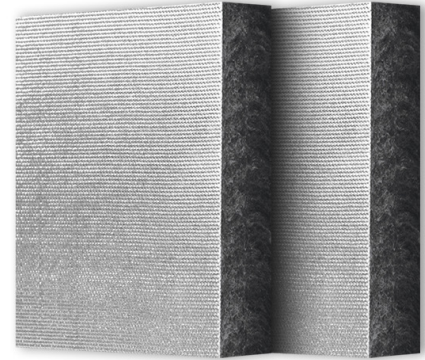
When compared to other insulation of equivalent acoustic performance, Sorberpoly 3D AGC is lighter than other absorbing mediums such as foam, Rockwool and fibreglass. It meets or exceeds the needs of a variety of manufacturing and installation approaches.

VOC, ODP, HEALTH AND SAFETY

Sorberpoly 3D AGC is non-toxic and safe to handle by methods prescribed in the Safety Data Sheet. No Volatile Organic Compounds (VOC) are intentionally added to Sorberpoly 3D AGC during its manufacture when evaluated according to definitions as applied under the Australia National Pollutant Inventory, The Council of the European Union, Council Directive 1999/13/EC or the USA EPA regulation 40 CFR 51.100(s). No Ozone depleting substances are used during the manufacture of Sorberpoly 3D AGC

SPECIFICATIONS

Colour	Dark grey (polyester) with silver facing
Available	Standard roll length: 20 m (65.6 ft) Standard roll width: 1.4 m (4.6 ft) Standard thicknesses: 14, 25 and 50 mm (0.55, 1 and 2 in)
	Custom kit option, custom sizes, colours and/or thicknesses available depending on MOQ



applications

- Marine vessels, truck/bus cabins, railway and industrial vehicles
- HVAC systems/equipment
- Compressor, generator, hydraulic pump, machinery and equipment enclosures
- Heavy-duty truck, earthmoving & mining equipment, wall, roof, firewalls and bonnet liners
- Acoustic enclosures, control rooms and compartments
- Specialised acoustic panels

features

- Lightweight with excellent sound absorption
- Complies to international standards with excellent fire and toxicity ratings
- Resists weather, water and UV pollution over an extended period of time
- Excellent thermal insulator
- Durable, compressible, flexible
- Non-toxic and safe to handle without protective clothing or respiration apparatus - will not irritate the skin
- Light and heat-reflective impermeable AGC facing
- Simple to install or retrofit
- Does not hold water
- Mildew and odour resistant
- Made from recyclable polyester

PRODUCT SPECIFICATIONS

Product	Standard thickness	Standard roll length	Standard roll width ¹	Moisture absorption ² (WSS M99P32-B)	Density ²	Operating temperature range ³
Sorberpoly 3D AGC 14	14 mm (0.55 in)	20 m (65.6 ft)	1.4 m (4.6 ft)	2% at 38 °C 98% RH (for 24 hrs) (Report No. 02015BD)	24 kg/m ³ (1.5 lb/ft ³)	-40 to 130 °C (-40 to 266 °F)
Sorberpoly 3D AGC 25	25 mm (1 in)					
Sorberpoly 3D AGC 50	50 mm (2 in)					

Tolerance: Thickness ± 2 mm (0.08 in); Density: ± 5%. All above products are available with pressure-sensitive adhesive backing. Under extreme temperature conditions or where the substrate surfaces cannot be free from contaminants, mechanical fixing will be required on vertical surfaces. For all inverted installations including ceiling installations, mechanical fixing must be done in addition to PSA adhesion. Please consult your local Pyrotek representative for more information.

¹Useable width: Some surface coverings may overhang the useable width. ²For plain polyester only. ³Higher temperatures can be suitable depending on the application.

MATERIAL PROPERTIES

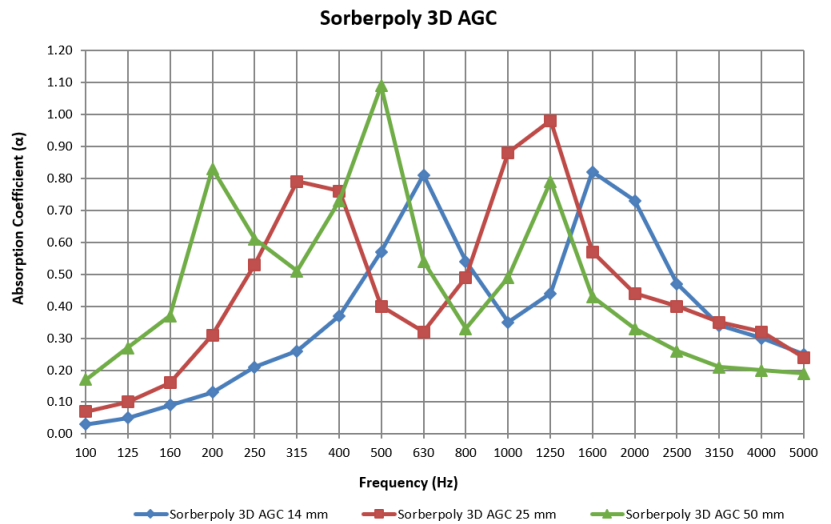
Test method	Property	Report no.	Results
EN 45545-2 (ISO 5658-2)	Spread of flame	417607	R1, R7 (HL1, HL2, HL3) for 5 mm to 150 mm products (0.2 to 5.9 in)
EN 45545-2 (ISO 5659-2: 50 kWm ⁻²)	Heat release rate by cone calorimeter		
EN 45545-2 (ISO 5660-1: 50 kWm ⁻²)	Smoke generation (optical density)		
FMVSS 302	Automotive burn rate	22315JY	Self-extinguishing
ASTM C518*	Thermal conductivity	DI0519/DU01	0.0399 W/mK

*Results for Sorberpoly 3D

ACOUSTIC PERFORMANCE

Frequency (Hz)	14 mm	25 mm	50 mm
100	0.03	0.07	0.17
125	0.05	0.10	0.27
160	0.09	0.16	0.37
200	0.13	0.31	0.83
250	0.21	0.53	0.61
315	0.26	0.79	0.51
400	0.37	0.76	0.73
500	0.57	0.40	1.09
630	0.81	0.32	0.54
800	0.54	0.49	0.33
1000	0.35	0.88	0.49
1250	0.44	0.98	0.79
1600	0.82	0.57	0.43
2000	0.73	0.44	0.33
2500	0.47	0.40	0.26
3150	0.34	0.35	0.21
4000	0.30	0.32	0.20
5000	0.25	0.24	0.19
NRC	0.45	0.55	0.65
SAA	0.48	0.57	0.58
α_w	0.45	0.45 (LM)	0.35 (LM)

Tested to ISO 354:2003 at University of Canterbury, New Zealand
Report Numbers: 309, 310 & 311



For further information and contact details, please visit our website pyroteknc.com

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. **DISCLAIMER:** This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See pyroteknc.com/disclaimer.

