

*It is advised to carry out a test or to contact our Technical Department before any new application with a filler.*

## MINERAL FILLERS

*AXSON fillers are compatible with polyurethanes and epoxies. They must be stored in a dry location.*

REFERENCE	TYPE	PARTICLE OR FIBER SIZE	DENSITY		MAIN APPLICATION	PACKAGING	
			true	apparent		kg	liter
<b>RZ 331</b>	Short glass fibres	length 6 mm	2.5	1.7	Physical linkage between gel coat and laminate or casting	20	11.7
<b>RZ 600</b>	Expanded slate	6 mm	1.1	0.65	Mold backing mixes	35	53.8
<b>RZ 55</b>	Fumed silica	-	2.2	0.05	Thixotroping agent	1	20
<b>RZ 218/1</b>	Microbeads glass	0.05 mm	2.5	1.5	Concrete mix with good abrasion resistance and good compressive strength	25	62.5
<b>RZ 288</b>	Calcium carbonate powder	0.004 mm	2.7	1.1	Bonding layer (20% Epoxy + 80% RZ 288)	50	45
<b>RZ 502</b>	Phenolic microballon	0.06 mm	0.2	0.1	Syntactic foam (25% Epoxy + 75% RZ 502)	13.62	230
<b>RZ 1476</b>	Hollow glass microballon	0.1 mm	0.25	0.15	Syntactic foam	7	60
<b>RZ30002</b>	Aluminium silicate microballon	0.3 mm	0.7	0.4	Light concrete mixes	20	50
<b>RZ 30150</b>	Hydrated alumina	0.07 mm	2.4	1.2	Surface casting (Resin + 150phr of RZ 30150)	25 15 5	20.8 12.5 4.2

(1) phr = per hundred of resin

## ALUMINIUM FILLERS

*Aluminium fillers mixed into epoxy or polyurethane resins increase thermal conductivity, reduce shrinkage and allow thicker castings.*

REFERENCE	TYPE	PARTICLE SIZE	DENSITY	PACKAGING	
				kg	Liter
<b>RZ 209/6</b>	Aluminium powder	< 63 µ	1	5 or 50	5 or 50
<b>RZ 1019</b>	Aluminium granulate	0.04 - 0.2 mm	1.3	40	38.5
<b>RZ 1021</b>	Aluminium granulate	0.5 - 2.0 mm	1.4	40	37.5

## EXAMPLE OF APPLICATIONS

### Thermoforming tool

*F 16 filled to 150 phr with RZ 209/6 : add the filler separately to each product component before mixing ; for a total weight of 500 g, add 150 g RZ 209/6 filler to 100 g of Part A and add 150 g RZ 209/6 filler to 100 g of Part B mix the two parts before casting. Maximum casting thickness : 50 mm*

### Concrete backing mix for RIM or polyester injection tooling

*Mix 120 g to 150 g EPOLAM 2025 and then add in gradually 500 g of RZ 1019 and 500 g of RZ 1021 using a planetary mixer. Tamp down onto the laminate. Maximum thickness : 100 mm*

(1) phr = per hundred of resin

## STORAGE CONDITIONS

*Fillers must be stored in their original unopened containers in a dry location. In case of partial use of a container, it must be closed tight again to avoid any contamination. Particularly with polyurethanes care must be taken to ensure that adding filler does not cause a foaming reaction (due to moisture content).*

## HANDLING PRECAUTIONS

*Normal health and safety precautions should be observed when handling these products :*

- *Ensure good ventilation*
- *Wear gloves, safety glasses and waterproof clothes.*

*For further information, please consult the product safety data sheet.*

## GUARANTEE

*The information contained in this technical data sheet result from research and tests conducted in our Laboratories under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON guarantee the conformity of their products with their specifications but cannot guarantee the compatibility of a product with any particular application. AXSON disclaim all responsibility for damage from any incident which results from the use of these products. The responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications.*