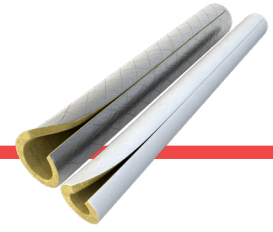


# AF PSR 120-90

## Tie-rod fire protection cupels



### DESCRIPTION

**AF PSR 120** cupels consist of two concentric bodies made of high density rock wool. The inner cupel is treated on the surface with a special product to lower temperatures using water vapour emission. **AF PSR 120** cupels are designed for fire protection of structural steel elements and tie rods.

The outer cupel is coated with a layer of aluminium mesh or galvanised sheet metal that can be fixed with self-tapping screws. For some applications, where fire resistance for 60-90 minutes is sufficient, **AF PSR 90** cupels are available. These are high density rock wool cupels with a surface coating of wire aluminium foil.

### DIRECT APPLICATION

Tie rod protection

### FEATURES

	PSR 120	PSR 90
Specific insulating weight:	100 Kg/m <sup>3</sup>	100 Kg/m <sup>3</sup>
Inside diameter of cupel A:	35 mm	35 mm
Outside diameter of cupel A:	95 mm	95 mm
Inside diameter of cupel B:	102 mm	102 mm
Outside diameter of cupel B:	182 mm	182 mm
Inside diameter of cover protection:	194 mm	194 mm
Outside diameter of cover protection:	334 mm	334 mm
Cupel length:	1200 mm	1200 mm
Cover protection length:	400 mm	400 mm
Cupel weight (A+B):	2.98 Kg/m	2.50 Kg/m
Reaction to fire:	Class A1 <sub>L</sub> EN 13501-1	Class A1 <sub>L</sub> EN 13501-1

### PACKAGING AND STORAGE

On pallets

Unlimited if stored in a closed environment away from humidity and direct exposure to atmospheric agents.

### APPLICATION METHOD

1. widen the inside cupel (smaller diameter) at the longitudinal cut;
2. insert the cupel on the tie rod;
3. repeat the operation with the outside cupel, offsetting the transversal and longitudinal joints;
4. fix it with twisted steel wire or apply a steel cupel 4/10 mm thick.

### SPECIFICATION

Supply and application of AF PSR 120 system, consisting of two concentric mineral wool cupels with total thickness of 70 mm, the inside cupel treated with AF SEAL T1 ablative product and the outside cupel coated with aluminium foil, for R 120 protection of steel tie rods.

Supply and application of AF PSR 90 system, consisting of two concentric mineral wool cupels with total thickness of 70 mm, the inside cupel bare and the outside cupel coated with aluminium foil, for R 90 protection of steel tie rods.

### CERTIFICATIONS

Class R 90/120

*test reports critical temperature assessment on the tie rod under Eurocode 3 class 4 profiles (T ≤ 350°C)*

