

Cupels for tie-rod fire protection

AF PSR 120 cupels consist of two concentric bodies made of high-density rock wool. The internal cupel is coated with a product which lowers the temperature by releasing water vapour. **AF PSR 120** cupels are designed for fire protection of steel structural elements, particularly tie rods.

On request the external cupel can be covered with a layer of wired aluminium or galvanised sheet that can be locked with self-tapping screws.

For applications where fire resistance needed is for 60-90 minutes, AF PSR 90 cupels are available. These are high density rock wool cupels externally coated with wired aluminium foil.

CHARACTERISTICS	PSR 120	PSR90
Insulating product weight:	100 kg/m ³	100 kg/m ³
Average thickness:	30+30 mm	30+40 mm
Cupel internal diameter: A:	35 mm	35 mm
Cupel internal diameter: B:	102 mm	102 mm
External diameter:	162 mm	182 mm
Internal diameter Cover protection:	194 mm	194 mm
External diameter Cover protection:	334 mm	334 mm
Cupel length:	1200 mm	1200 mm
Cover protection length:	400 mm	400 mm
Cupel weight (A+B):	3.00 kg/m	2.50 kg/m
Reaction to fire:	Class A1L EN 13501-1	

APPLICATION METHOD:

1. open the internal cupel (smaller diameter) at its longitudinal section;
2. insert the cupel on the tie rod;
3. repeat the operation with the external cupel and offset the transverse and longitudinal joints;
4. secure the whole system with a steel braided wire or alternatively install a steel 4/10 mm thick cupel.

PACKAGING AND STORAGE

The product is supplied on pallets.

AF PSR series cupels do not have storage requirements when stored indoors and protected from humidity.

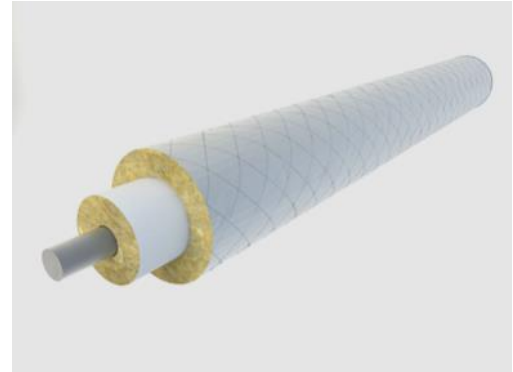
SPECIFICATIONS

Supply and application of **AF PSR 120** system made up of two concentric mineral wool cupels with a total thickness of 60 mm. The inner cupel is treated with **AF SEAL T** ablative product and the outer cupel is coated with aluminium foil for R 120 protection of steel tie-rods.

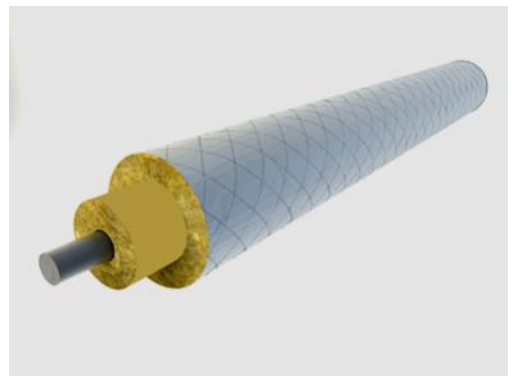
Supply and application of **AF PSR 90** system made up of two concentric mineral wool cupels with a total thickness of 70 mm. The inner cupel is bare and the outer cupel is coated with aluminium foil for R 90 steel tie-rod protection.

CERTIFICATIONS

R 90/120 classification report with critical temperature evaluation of the tie-rod according to Eurocode 3 class 4 profiles (T ≤ 350°C).



AF PSR 120



AF PSR 90