

Refractory Anchors



Expansion Coating

Refractory concretes have a different rate of expansion to the stainless steel refractory anchor. To assist in combating this differential expansion a sacrificial plastic cap or expansion coating can be applied to the anchor.

Antec can supply anchors fitted with plastic caps or alternatively an expansion coating system applied by dipping.

The advantages of the expansion coating system over PVC plastic caps include the following:

- No residual chlorides are left after combustion.
- Combustion gases and residual ash are environmentally friendly.
- Length of coating cover can be easily increased because the coating is applied by dipping. This gives both greater radial expansion allowance along the length of the anchor and also greater security of the coating's retention during unpacking and handling of the anchors.



Solutions for the Mining, Minerals Processing
& Infrastructure Industries

Distributed by: **ANTEC ENGINEERING PTY LTD**
9 Chicago Avenue, Blacktown, NSW, 2148, Australia
Ph : +61 (02) 9622-9622 | Fax: +61 (02) 9622-9199
www.antec.com.au

Refractory Anchors



Approximate Scaling Temperatures for Commonly Used Alloys

In continuous service & under ideal conditions

ALLOY	TEMPERATURE °C
304	850°C
321	850°C
310	1100°C
253MA	1150°C
RA330	1150°C
INCONEL 601	1200°C

Note:

The temperatures shown are based on ideal operating conditions. Temperatures given are those generally accepted however different manufacturers of these alloys may publish data that can vary to that shown above. Therefore whilst the above is given in good faith, Antec cannot accept any liability whatsoever for the accuracy or use of the information.

Hostile environments will significantly affect the value of the above and the alloy's performance.



Solutions for the Mining, Minerals Processing
& Infrastructure Industries

Distributed by: ANTEC ENGINEERING PTY LTD
9 Chicago Avenue, Blacktown, NSW, 2148, Australia
Ph : +61 (02) 9622-9622 | Fax: +61 (02) 9622-9199
www.antec.com.au

Refractory Anchors



Anchor Spacing & Quantity Required

Anchor Spacing "P" (mm)	Anchor Quantity per m ²
150	45
175	33
200	25
225	20
250	16
300	11.5
350	8.5
450	5

Spacing's given above relate to the typical anchor layouts shown below.

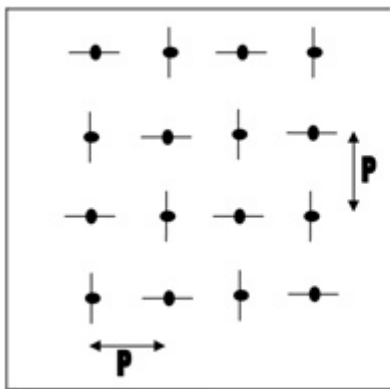


Fig. 1 – Square Pitch

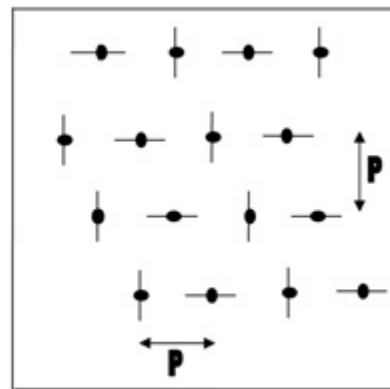


Fig. 2 – Staggered Pitch



Solutions for the Mining, Minerals Processing
& Infrastructure Industries

Distributed by: ANTEC ENGINEERING PTY LTD
9 Chicago Avenue, Blacktown, NSW, 2148, Australia
Ph : +61 (02) 9622-9622 | Fax: +61 (02) 9622-9199
www.anteccom.au