

Carbones y Sistemas, S.L.L

C/ Av. Los Pocillos, 10 Nave 1 - P.I. La Carrehuela 28340 Valdemoro (Madrid)

Tel.: +34 91 895 38 80 mail@carbosystem.com Fax: +34 91 809 23 46

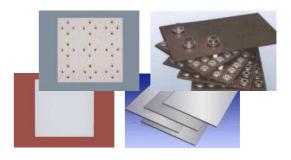
www.carbosystem.com



applications

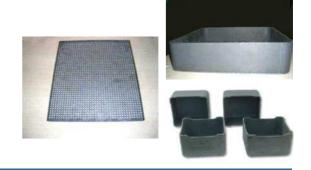
slab - plates

- Support plates for sintering pieces.
- Designed for use in sintering processes.
- Materials: Graphite, Alumina, Composites, Cordierite, Corundum, Molybdenum, SiC, etc.



trays - crucibles

- Trays and crucibles for sintered pieces.
- Designed for use in sintering processes.
- Materials: AiSi-314, Alumina Composite, Molybdenum, SiC, etc.



furnace construction

- Heating elements, furnace linings.
- Insulators and muffles.
- Materials: Alumina Oxide, Molybdenum, SiC, Tungsten, etc..



kiln rollers

- Rollers, protection sheaths, profiles
- Loading system, profiles. suppot tubes
- Materials: Alumina Oxide, SiC, etc.





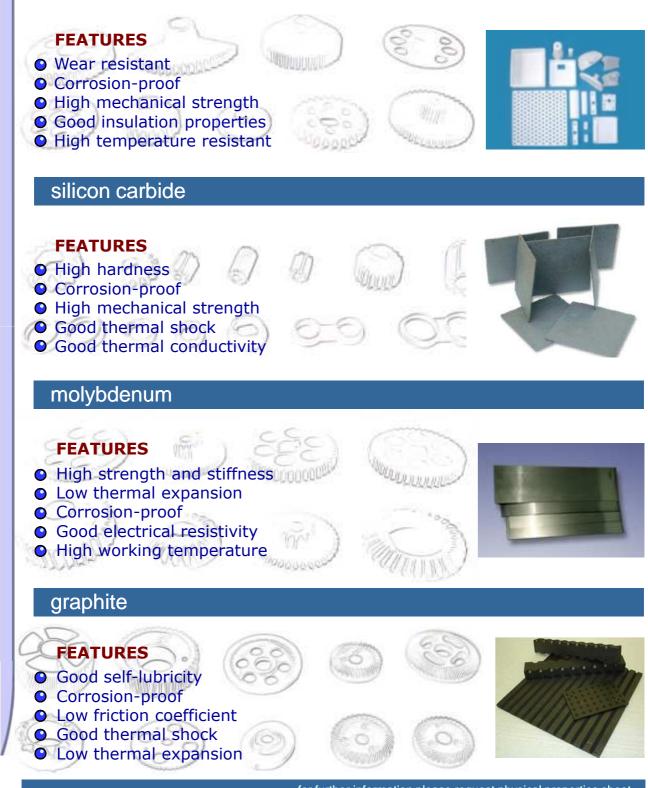
For other applications, please contact us



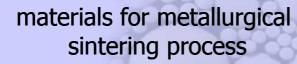


materials

alumina oxide



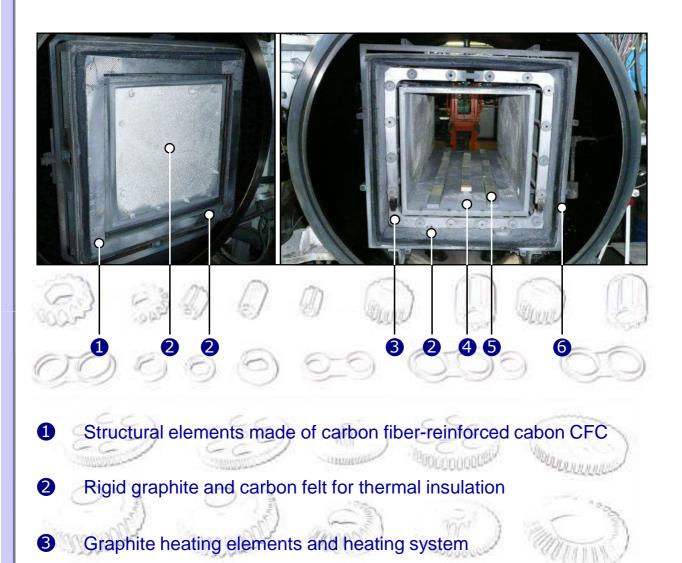


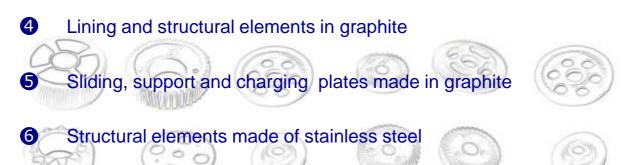




furnaces

vacuum furnaces









furnaces

sintering furnaces

Carbosystem supply a variety of furnaces refractory pieces and heating elements for sintering furnaces used to process powder metallurgy (PM) and metal injection molded (MIM) parts. Two kinds of furnances are mostly used for sintering PM or MIM parts and the heated is using either resistance heating elemtens or gas fired

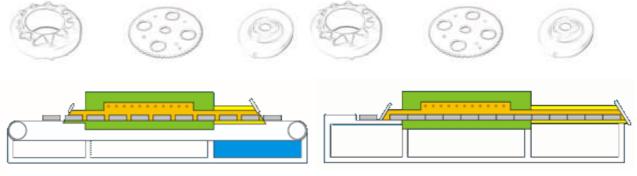
Mesh-Belt Furnaces:

burners:

These furnaces are often used to sinter ferrous PM parts at a temperature around 1.120 °C in a controlled nitrogen / hydrogen atmosphere. We advise use SiC muffles and graphite+anti-oxidation impregnation or mullite materials for support / trays to sintering pieces

Pusher Furnaces:

These furnaces are often used to fire stainless steel at a temperature around 1.120 °C in a very dry hydrogen atmosphere. We advise use SiC muffles and graphite+anti-oxidation impregnation, SiC, corundum or alumina materials for pusher pieces.



Mesh-Belt Furnace Scheme

Pusher Furnace





furnace plates

support plates

Carbosystem supplies support plates in cordierite-mullite of different grades depending on the variables during the sintering process. As guidance information we indicate the most appropriate qualities according the theoretical working conditions :

CB34 Plates with a good mechanical stability and surface finish, suitable for bearing out weight and weak thermal shocks.

CB40

Plates for use in rapid-cooling oven. These plates are produced with certain porosity so that the inner expansions, produced by strong thermal shocks, can be absorbed. The disadvantage is that the surface finish is rugous and its mechanical stability is weaker than the one of other grades.

CB48

Plates for use in half thermal shock oven. Good mechanical properties and mid surface finish.



NOTE:

The provided information is as indication only and does not compromise the Carbosystem society.











quality and service



Advanced materials

□ We help improve your process

We help increase your production

We help reduce your costs

□ We offer you the best price, technical support and quality



Carbones y Sistemas, S.L.L.

C/ Av. Los Pocillos, 10 Nave 1 - P.I. La Carrehuela Tel.: +34 91 895 38 80 mail@carbosystem.com 28340 Valdemoro (Madrid)

Fax: +34 91 809 23 46

www.carbosystem.com