

DEERFOS's New Technology Compact Grain Products

Compact grain products containing the agglomerates provide higher stock removal [long-life time] than conventional abrasive products bearing a single layer of abrasive grains, since the special character of the agglomerates allows the sloughing off of spent individual abrasive grains during abrading operations and exposing of new abrasive grains to the work piece.

Compact Grain Construction

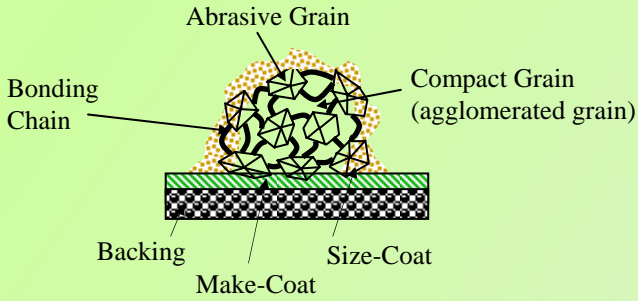


Fig-1

Fig-1 is a schematic side view in elevation of an agglomerates particle made. The particle contains abrasive grains as the solid particulates and has a substantially circular cross-section.

Fig-1 illustrates a preferred, non-limiting example of a filamentary shaped compact grain made by the method of the technique. The compact grain comprises a binding chain and abrasive grain.

Outside of compact grain permit formation of a strong bond to the maker and size coat used in conventional abrasive manufacturing technique.



Fig-2

Fig-2 is showing the abrasive grain and compact grain of the actual object.



Uniform Sanding

The grinding results shown in Fig-3 show that the belts made with the compact grain product removes more stainless steel than a conventional abrasive belt at grinding forces.[5kgf]

Compact Grain products have initially slightly lower than conventional products, but 6 times more as long as for convention abrasives.

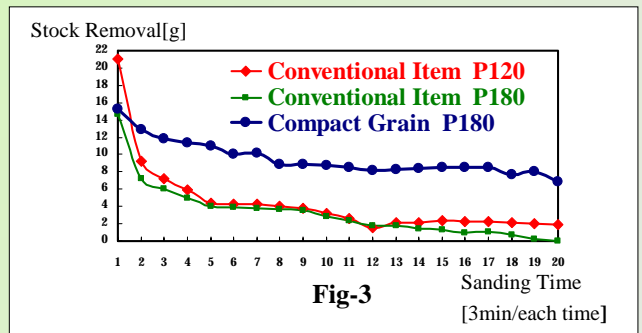


Fig-3

Application

- Sanding of surface and edges.
- Wet & dry sanding.
- Finishing chromium-plated cylinders and piston rods
- Finishing car-body working shells before painting.
- Finishing of metal sheeting made of corrosion resistant steel and alloys of non-ferrous heavy and light metals.

Available sander/grinder

- Flat Work - Stroke Sanders, Grinders and Polishers
- Round Work - Centerless & Roll Grinders
- Contour Work - Backstands, Slack of Belt
- Rotary Automatics

DEERFOS's Compact Grain Products

- PG730** : P800~P80 Ywt, Compact Aluminum Oxide [Wet Application] Size coating with power binder
- PX220** : P1000~P120 Ywt, Compact Silicon Carbide Size coating with active filler
- JG530** : P800~P80 Jwt, Compact Aluminum Oxide Size coating with active filler

- PG830** : P800~P80 Ywt, Compact Aluminum Oxide Size coating with active filler
- JX390** : P1000~P100 Jwt, Compact Silicon Carbide Size coating with active filler