

## Sintered Wire Mesh

Sintered or diffusion bonded wire mesh production process includes the use of heat and pressure to develop molecular diffusion welds at all intersections in the mesh where the wires pass up and down each other. It is a clean, ductile and completely annealed mesh by the sintering procedure. The mechanical characteristics are normally improved by wire bonds and filtration characteristics are maintained by eliminating the wire displacement.

Mesh sintering is generally performed on flat sheets to which uniform isostatic pressure is applied to enable the diffusion bonding to occur. Although the process also offers sintered mesh in coil or roll forms for which the process is named as coil sintering or roll sintering.

### Production

Wire selection-preparation-weaving- visual assessment-initial slitting-joining or welding- deep cleaning-annealing-seam treatment-secondary slitting-final rolling- ready for delivery

**Annealing allows to eliminate fraying during secondary processing and sustains stable mesh opening**

## Sintered Wire Mesh Applications

1. Electronic equipments- removal of unwanted materials or contaminants from inkjet printer heads, electrode dividers in batteries, earphone covers
2. Automotives, muffler components and wind tunnels
3. Industrial uses – chemical, medical, solid-liquid filtration at food units
4. Machinery-centrifuges and separators for filtering equipments
5. Petroleum refining – Solid-liquid filtration during processing and eradication of contaminants in fluids during the refining procedure and hot gas distillation units.
6. Outer wall for building and interior material.

