

How to Avoid Coloring of Parts in Hot Isostatic Pressing

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A common problem in the HIP industry is discoloring of parts with high Chromium content, like for Stainless Steel or Cobalt-Chromium-alloys that turns out green, for Ti-alloys that turns out blue or yellow, and for Cu-alloys that can have a black surface.

HIP users use different methods to avoid the coloring, like having different kind of getters, i.e. Titanium sponge. They wrap parts in foils from Molybdenum, Titanium and Stainless steel, which is a tedious and from time to time not effective.

This work will show the way forward how to avoid discoloring of HIPed parts. The use of a graphite furnace in combination with an optimised HIP cycle gives clean and spotless parts ready for use without any post-processing like polishing, brushing, etc.

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HIP Process

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