



February 2022 - Our Chapter's 102nd Year ASM Virtual Technical Session

KOLSTERISING

Speaker: Douglas Ridgeway
Bodycote

Date: Monday, February 21, 2022

Time: Login 7:00 PM, Presentation 7:30 PM

Duration: Approximately one hour; questions and answers to follow

Registration: Please contact Dave Guisbert deguisbert@aol.com by February 18, 2022. Meeting login information will be sent to all who register.

Abstract:

Bodycote's Kolsterising® technology is a low temperature diffusion-based surface hardening process used to significantly increase the surface hardness of austenitic stainless steels as well as PH and nickel based alloys without causing any embrittlement of the base material. In addition to the increased surface hardness, the compressive stresses that are created subsurface drastically improve the fatigue properties of the base material. In this session, the Kolsterising® process will be covered in detail as well as a review of a test program of untreated, shot peened and Kolsterised springs. With the improvements that the test program has shown, springs can now be designed to last through many more cycles without having to increase the size of the spring being used.

About the speaker:

Doug Ridgeway is the Sr. General Manager of Bodycote's S³P Division in North America. Doug received his BS in Metallurgical Engineering from The Ohio State University. He has over 30 years' experience in the heat treating industry, as well as extensive experience working with powder metal and powder forging for both the automotive and industrial markets, serving in various roles in both production and quality management. For the past 17 years he has focused on stainless steel surface treatments, primarily Bodycote's Kolsterising® process, to improve the life and performance of products across all market sectors. When not at work he enjoys spending time on the golf course.

