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New Coatings Technology Study Findings Reported from **UTBM**

By a News Reporter-Staff News Editor at Journal of Technology -- Fresh data on Coatings Technology are presented in a new report. According to news reporting from Belfort, France, by VerticalNews journalists, research stated, "This work focuses on the properties of a Cu-3 wt.% Ag-0.5 wt.% Zr alloy deposited by a Cold Spray process. Helium was used as the carrier gas and main gas to obtain a high deposition efficiency, low porosity and high mechanical properties."

The news correspondents obtained a quote from the research from **UTBM**, "The effect of deposition parameters and heat treating on the microstructure and mechanical properties was explored. An ultimate tensile strength higher than 650 MPa, a yield strength of about 600 MPa and a Vickers micro hardness HV0.2 higher than 220 were obtained, values which compare quite favorably with those corresponding to a classically forged material. The deposits microstructure and more particularly the plastic deformation of particles upon impact were observed by optical and electronical microscopy."

According to the news reporters, the research concluded: "The residual stress level was also investigated as a function of heat treating."

For more information on this research see: Mechanical properties of Cold Spray deposited NARloy-Z copper alloy. *Surface & Coatings Technology*, 2013;232():652-657. *Surface & Coatings Technology* can be contacted at: Elsevier Science Sa, PO Box 564, 1001 Lausanne, Switzerland. (Elsevier - www.elsevier.com; Surface & Coatings Technology - www.elsevier.com/wps/product/cws_home/504101)

Our news journalists report that additional information may be obtained by contacting P. Coddet, **UTBM**, F-90010 Belfort, France. Additional authors for this research include C. Verdy, C. Coddet, F. Lecouturier and F. Debray.

Keywords for this news article include: France, Europe, Belfort, Coatings Technology

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