



Swansea University
Prifysgol Abertawe

Poster 15

Development of novel coatings of steel for the hot-stamping process

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ABSTRACT:

The project is mainly focusing on designing a alternative coating for use in the hot stamping industry that can provide galvanic protection for the steel while still being viable for use on boron steels while they are heated through the austenitic region, currently used coatings are typically based on barrier protection of the steel which works until any damage to the coating occurs through scratches during any of the transport or processing steps. Galvanic protection that can survive the heat treatment process could allow for less processing steps and become more economically viable for manufacture while also increasing service life of formed parts.



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