

## Selected Resources: Coatings for Magnesium Alloys

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The following are selected articles on coatings for magnesium alloys.

PAPER TITLE	AUTHOR(S)	SOURCE	LINK
Magnesium Finishing-Chemical Treatment and Coating	<i>Reece W. Murray and James E. Hillis</i>	SAE Technical Paper, Document Number 900791	<a href="#">Acquire this Article</a>
Surface Modification of Magnesium by Micro Arc Oxidation	<i>Murat Baydogan, Mert Gunyuz, Huseyin Cimenoglu, and Eyup Kayali</i>	Magnesium Technology 2007, TMS, pp. 451-454	<a href="#">Acquire the Article</a>
Conversion Coating Treatment for AZ31 Alloy in a Permanganate-Phosphate Solution	<i>X. Shi, G. Jarjoura and G. J. Kipouros</i>	Magnesium Technology 2006, TMS, pp. 273-280	<a href="#">Acquire the Article</a>
Electroless Nickel-Phosphorus Plating on AZ31 Magnesium Alloy Pretreated with a Chemical Conversion Coating	<i>X. Shi, G. Jarjoura and G. J. Kipouros</i>	Magnesium Technology 2006, TMS, pp. 291-298	<a href="#">Acquire the Article</a>
The Electropolishing and Anodic Coating of AZ31 Magnesium Alloy	<i>Q. Zhao, Y. Zhou, Y. Zhang, C. Zhao, Y. Guo, and X. Cang</i>	Magnesium Technology 2005, TMS, pp. 481-484	<a href="#">Acquire the Article</a>
Corrosion Protection and Repassivation after the Deformation of Magnesium Alloys Coated with a Protective Magnesium Fluoride Layer	<i>T. Hassel, F.-W. Back, C. Krause, and P. Wilk</i>	Magnesium Technology 2005, TMS, pp. 485-490.	<a href="#">Acquire the Article</a>
Mg <sub>2</sub> Si Coating Technology on Magnesium Alloys to Improve Corrosion and Wear Resistance	<i>T. Yamaguchi, K. Kondoh, T. Serikawa, M. Henmi, and H. Oginuma</i>	Magnesium Technology 2005, TMS, pp. 491-498	<a href="#">Acquire the Article</a>
Adhesive Bonding and Corrosion Protection of Die Cast Magnesium Automotive Door	<i>G. T. Bretz, K. A. Lazarz, D. J. Hill and P. J. Blanchard</i>	Magnesium Technology 2004, TMS, pp. 113-119.	<a href="#">Read the Full Paper</a>
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The Application of Power Ultrasound to the Preparation of Anodic Coatings Formed on Magnesium Alloys	<i>X. W. Guo, W. J. Ding, C. Lu and C. Q. Zhai</i>	Magnesium Technology 2004, TMS, pp. 125-130.	<a href="#">Read the Full Paper</a>
Parametric Study of the Laser Cladding of AS 21 Magnesium Alloy with Aluminium Silicon/Tungsten Carbide Powder	<i>M. Mandagje, M. Brandt, Y. Durandet and M. Jahedi</i>	Magnesium Technology 2003, TMS, pp. 81-88.	<a href="#">Read the Full Paper</a>
Surface Finishing of Aluminium and Magnesium Alloys Using Plasma Electrolytic Oxidation (PEO) (abstract only)	<i>K. T. Stevens, C. G. John and F. C. Walsh</i>	Magnesium Technology 2003, TMS, p. 89-92.	<a href="#">Read the Full Paper</a>
Emerging Trends in Corrosion Protection of Magnesium Die-Castings	<i>J. I. Skar and D. Albright</i>	Magnesium Technology 2002, TMS, p. 255-261.	<a href="#">Read the Full Paper</a>
Corrosion and Wear Resistance of Electroless Nickel on Magnesium Alloys	<i>G. E. Shahin</i>	Magnesium Technology 2002, TMS, p. 263-267.	<a href="#">Read the Full Paper</a>

- Improved Corrosion Performance of AZ91D Magnesium Alloy Coated with the Keronite™ Process** *S. Shrestha, A. Sturgeon, P. Shashkov and A. Shatrov* Magnesium Technology 2002, TMS, p. 283-287. [Read the Full Paper](#)
- Sealing Methods for Enhanced Corrosion Protection of Anodized Magnesium Alloy WE43A-T6** *R. G. Rateick, S-J. Xia and V. I. Birss* Magnesium Technology 2002, TMS, p. 289-294. [Read the Full Paper](#)
- Laboratory Evaluation of Corrosion Resistance of Anodized Film on Magnesium** *V. Tchervyakov, G. Gao, J. Bombach, A. P. Pchelnikov, and G. Cole* Magnesium Technology 2000, TMS, p. 143=152. [Read the Full Paper](#)