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**MICROSTRUCTURE AND MECHANICAL PROPERTIES OF AL-MG-MN SHEETS
PRODUCED BY EQUAL-CHANNEL ANGULAR PRESSING AND SUBSEQUENT WARM
ROLLING**

¹Malopheyev S., ¹Vysotskiy I., ¹Mironov S., ¹Kaibyshev R.

¹ *Belgorod State University, Belgorod, Russia*

In this work, a two-step approach was applied to commercial Al-Mg-Mn alloy to produce fine-grained sheets with improved properties. To this end, the material was initially subjected to equal-channel angular pressing at 300 °C to an accumulated true strain ~12. This resulted in a formation of a fully recrystallized equiaxed structure with average size ~1 µm. The relatively high thermal stability of the deformation-induced microstructure was provided by the constituent Al₆Mn dispersoids of ~25 nm in size. Then, the severely-deformed material was undergone a conventional plane rolling at 300 °C to a total thickness reduction of 80%.

The final microstructure and mechanical properties of the produced material were studied.

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