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Effects of austenite regeneration heat treatment on the TLP bonding of duplex stainless steel UNS S32750 using Fe-B-Si insert metal

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Highlights

- ▶ TLP bonding and the effect of austenite regeneration heat treatment were researched.
- ▶ Austenite regeneration heat treatment process was performed after bonding of specimens.
- ▶ Change of austenite fraction with an increased bonding temperature and holding was showed clearly.
- ▶ Austenite regeneration heat treatment effect in the joint areas was showed from SEM and EPMA analysis.
- ▶ Homogenization behaviors of joint microstructures were studied through a diffusion model

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