TABLE SI

TABLE SI. Electrochemical data of the dissimilar weldments for pitting and galvanic corrosion.

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| Pitting Corrosion | Galvanic Corrosion |
| Sample specification | **Pitting potential,****Epit (V vs. Ag/AgCl)** | **Couple** | **Galvanic current density****(IG),****nA/cm2** |
| DSS 2205BM | - | DSS 2205 BM- E2209 weld | - 42.78 |
| AISI 430 FSS BM | - 0.291 | 2205 BM-309LMo weld | -7.65 |
| E309LMo weld | 0.320 | AISI 430 FSS BM-E2209 Weld | 5 |
| E2209weld | 0.791 | AISI 430 FSS BM-309LMo weld | 13.77 |