

Pengaruh durasi pemakaian dan perlakuan post weld terhadap terbentuknya korosi batas butir dan sifat mekanik dari hasil pengelasan stainless steel 409 = Effect of the duration of use and post weld treatment on the intergranular corrosion and mechanical properties of the stainless steel 409 welding result

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Abstrak

Tesis ini membahas hubungannya pengaruh durasi (umur pakai) stainless steel AISI 409 terhadap IGC (Intergranular Corrosion) yang dapat menurunkan kualitas lasan dan pengaruh penambahan proses post weld pada proses pengelasan terhadap terbentuknya IGC (Intergranular Corrosion). Penelitian ini menggunakan uji tarik, uji kekerasan, pengamatan metalografi dan SEM, serta uji korosi dengan metode weight loss. Hasil penelitian menyimpulkan bahwa perpustakaan perlu dilibatkan dalam pengembangan kurikulum; materi pendidikan pemakai perpustakaan harus dikembangkan sesuai dengan komponen-komponen yang ada dalam information literacy; perpustakaan juga harus menyediakan sarana dan fasilitas yang mendukung peningkatan literacy mahasiswa.

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This thesis discusses the relationship influences the duration (lifetime) of stainless steel AISI 409 on the IGC (intergranular corrosion) which can degrade the quality of welds and the effect of the addition of post-weld process on the welding process of the formation of the IGC (intergranular corrosion). This study used a tensile test, hardness test, metallographic and SEM observations, as well as corrosion test by the method of weight loss. The research concludes that the library should be involved in curriculum development; library user education materials should be developed in accordance with the components were present in the information literacy; the library must also provide facilities that support improved student literacy.