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BS EN 12797:2000 Brazing - Destructive Tests Of Brazed Joints

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Abbreviation

BS EN 12797:2000

Valid from

19/07/2000

Information provider

Standards New Zealand

Author

European Standardization Organisations, British Standards Institution

Information type

European Standard

Format

PDF

Cited By

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Description

This European standard describes destructive test procedures and test piece types necessary to perform the tests on brazed joints.

Scope

This European Standard describes destructive test procedures and test piece types necessary to perform the tests on brazed joints. Brazed joints are used in a wide variety of assemblies and the design requirements placed upon these joints will also vary widely; there will usually be some level of strength required but this may not be explicitly stated and is frequently of minor importance compared to some other criterion, e.g. hermeticity. It follows that a test which measures strength may be totally irrelevant in assessing a joint for a particular application where strength is a minor consideration. This situation is made more complicated because brazed joints are almost invariably designed to be loaded in shear and the dimensions of the joint affect the shear strength to a much greater extent than they do the tensile strength.

The tests described in this standard have been used successfully to give information on specific properties and where such information is needed, it is recommended that one of them be specified. It is vital to recognise that for many fabrications none of these tests will be suitable and specific tests will have to be devised, which do yield the requisite information (which may be qualitative rather than quantitative).

The destructive test methods described are as follows:

- a) shear tests (see clause 4);
- b) tensile tests (see clause 5);

- c) metallographic examination (see clause 6);
- d) hardness tests (see clause 7);
- e) peel test (see clause 8);
- f) bend tests (see clause 9).

Details of burst tests are not included as these are not commonly used on brazed joints. The type of test piece described for each test can be quoted or incorporated in engineering applications standards that deal with brazed assemblies.

The results of the tests are used:

1. to determine basic data regarding filler metal performance;
2. to arrive at optimum brazing designs (including gaps) and brazing procedures...(Truncated)

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