

- Subject Coverage**
- Brazing
  - Corrosion
  - Fatigue and fracture
  - Health and safety
  - Inspection
  - Metallurgy and materials science
  - Non-destructive testing
  - Quality control
  - Soldering
  - Surfacing
  - Thermal cutting
  - Thermal spraying
  - Welding

**File Type** Bibliographic

**Features**

<a href="#">Alerts (SDIs)</a>	Monthly			
<a href="#">CAS Registry Numbers®</a>	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	<a href="#">STN AnaVist</a> <input type="checkbox"/>
<a href="#">Keep &amp; Share</a>	<input checked="" type="checkbox"/>	<a href="#">SLART</a>	<input checked="" type="checkbox"/>	<a href="#">STN Easy</a> <input checked="" type="checkbox"/>
Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>	<a href="#">STN Viewer</a> <input type="checkbox"/>

**Record Content**

- Bibliographic information, indexing, and abstracts

**File Size**

- 217,411 records (07/11)

**Coverage** 1967-present

**Updates** Monthly

**Language** English

**Database Producer**

TWI Ltd.  
 Granta Park  
 Great Abingdon  
 Cambridge CB21 6AL  
 United Kingdom  
 Phone: +44 1223-899000  
 Fax: +44 1223-892588  
 E-mail: twi@twi.co.uk  
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**Database Supplier** FIZ Karlsruhe  
STN Europe  
P.O. Box 2465  
76012 Karlsruhe  
Germany  
Phone: +49 7247 808-555  
Fax: +49 7247 808-259  
E-mail: helpdesk@fiz-karlsruhe.de

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**Sources**

- Journals
- Books
- Standards
- Reports
- Patents
- Theses
- Subject-related Publications

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**User Aids**

- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

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**Clusters**

- ALLBIB
- AUTHORS
- CHEMISTRY
- COMPANIES
- CORPSOURCE
- ENGINEERING
- MATERIALS
- METALS

[STN Database Clusters](#) information (PDF)

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**Pricing** See the [STN Price List](#) or enter HELP COST at an arrow prompt.

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## Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (\*).

### General Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (contains single words from the abstract (AB), title (TI), corporate name (CO) <b>(1)</b> and controlled term (CT) fields)	None or /BI	S 07KH16N4B STEEL S WELDED SPECIMENS S ACID(L)ELECTRODES S ?GLASS?	AB, CO, CT, TI
Accession Number Author	/AN /AU	S 76857/AN S MANDAL M/AU S MAN TECHNOLOGIE GMBH/AU	AN AU
Availability <b>(1)</b> Cited Reference <b>(2)</b>	/AV /RE	S TWI/AV S "CLAXTON R A, 1983, V10, P16, VERIFACT"/RE	AV not displayed
Classification Code <b>(3)</b> Controlled Term Controlled Word	/CC /CT /CW	S NUCLEAR ENGINEERING/CC S MANUAL OPERATION/CT S L1 AND ACCELERATION/CW	CC CT CT
Corporate Name <b>(1,4)</b> Corporate Source (incl. author's affiliation) <b>(3)</b>	/CO /CS	S CASTOLIN GMBH/CO S TECHNICAL RESEARCH CENTRE/CS	CO CS
Data Entry Date <b>(1,4)</b> Document Type (code and text)	/DED /DT (or /TC)	S DED=2001 S B/DT S BOOK/DT	DED DT
International Standard (Document) Number (contains ISBN)	/ISN	S 0-08-025396-2/ISN	ISN, SO
Language (ISO code and text)	/LA	S EN/LA S FRENCH/LA	LA
Note <b>(3)</b> Publication Year <b>(4)</b> Reference Count <b>(4)</b>	/NTE /PY /REC (or /RE.CNT)	S DISSERTATION HANNOVER/NTE S 1999-2000/PY S 9-10/REC	NTE PY, SO REC, SO
Source (contains journal title, publisher and place of publication, collation information, patent information, meeting information, publication year, and ISBN)	/SO	S JOURNAL OF FATIGUE/SO S PERGAMON PRESS/SO S US PATENT/SO S (1989 AND PROCEEDINGS)/SO	SO
Title Treatment Code (code and text) <b>(1)</b> Update Date <b>(4)</b>	/TI /TC /UP (or /ED)	S MANGANESE IN WELD METAL/TI S THEORETICAL/TC S T/TC S UP=SEP 2001	TI TC UP
Word Count, Title <b>(4)</b>	/WC.T	S WC.T<=9	WC.T

**(1)** Field available until February 2005.

**(2)** Citations from SCISEARCH and CAplus created by SELECT RE are searchable in this field. The field contains the author, publication year, volume, first page, and journal title from the records.

**(3)** Search with implied (S) proximity is available in this field.

**(4)** Numeric search field that may be searched with numeric operators or ranges.

## DISPLAY and PRINT Formats

Any combination of formats may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 TI CS. The fields are displayed or printed in the order requested.

Hit-term highlighting is available for all fields. Highlighting must be ON during SEARCH to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AB AN AU AV (1) CC CO (1) CS CT DED (1,2) DT ISN (2) LA NTE PY (2) REC (2) SO TC (1) TI UP (ED) (2) WC.T (2)	Abstract Accession Number Author (includes author's affiliation) Availability Classification Code Corporate Name Corporate Source Controlled Term Data Entry Date Document Type International Standard (Document) Number Language Note Publication Year Reference Count Source Treatment Code Title Update Date Word Count, Title	D TI AB D 1-5 AN D AU TI D AV D CC  D CS D CT D DED D DT D ISN D LA TI D NTE D PY D REC D SO D TC D TI 1-3 D UP D WC.T
ABS ALL DALL IALL BIB  IBIB IND SCAN (2) TRIAL (TRI, SAMPLE, SAM, FREE)	AN, AB AN, TI, AU, CS, SO, DT, TC, LA, NTE, AV, AB, CC, CT, CO ALL, with delimiter for post-processing ALL, indented with text labels AN, TI, AU, CS, SO, DT, TC, LA, NTE, AV (BIB is the default) BIB, indented with text labels AN, CC, CT, CO TI, CT (random display without answer numbers) AN, TI, CT	D ABS D 1-3 ALL D DALL D IALL D 8 BIB  D IBIB D IND D SCAN D TRI
HIT KWIC OCC	Hit term(s) and field(s) Up to 50 words before and after hit term(s) (KeyWord-In-Context) Number of occurrences of hit term(s) and field(s) in which they occur	D HIT D KWIC D OCC

(1) Field available until February 2005.

(2) Custom display only.

(3) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

## SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

**SELECT, ANALYZE, and SORT Fields (cont'd)**

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB	Y (2)	N
Accession Number	AN	Y	N
Author	AU	Y	Y
Availability	AV	Y (3)	
Citation	CIT (RE)	Y (4,5)	N
Classification Code	CC	Y	Y
Controlled Term	CT	Y	N
Corporate Name	CO	Y (3)	Y
Corporate Source	CS	Y (3)	Y
Data Entry Date	DED	Y (3)	Y
Document Type	DT	Y	Y
International Standard (Document) Number	ISN	Y	Y
International Standard Book Number	ISBN	N	Y
Language	LA	Y	Y
Note	NTE	Y	Y
Occurrence Count of Hit Terms	OCC	N	Y
Publication Year	PY	Y	Y
Reference Count	REC (RE.CNT)	Y	Y
Source	SO	Y	Y
Title	TI	Y (default)	Y
Treatment Code	TC	Y (3)	Y
Update Date	UP (ED)	Y	Y
Word Count, Title	WC.T	Y	Y

- (1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.
- (2) Appends /BI to the terms created by SELECT.
- (3) Field available until February 2005.
- (4) SELECT or ANALYZE CIT allows you to extract the reference from the source documents in this file and have them automatically converted to a citation format for searching in the SCISEARCH file. SEL or ANALYZE CIT extracts first author, publication year, volume, first page, with a truncation symbol and with /RE appended to the terms created by SELECT.
- (5) SELECT HIT or ANALYZE HIT are not valid with this field.

**Sample Records****DISPLAY ALL OF JOURNAL**

```

AN      215793  WELDASEARCH
TI      "Kissing bond" Phenomena in solid-state welds of aluminium alloys.
AU      OOSTERKAMP A; OOSTERKAMP L D; NORDEIDE A
CS      HYDRO ALUMINIUM R&D CENTRE, HAVIK. NORWAY
SO      Welding Journal, vol.83, no.8. Aug.2004. pp.225s-231s. 14 fig., 14
        Reference(s)
LA      English
NTE     TECHNICAL
AB      The weld formation mechanisms occurring in the extrusion charge welding,
        extrusion seam welding and friction stir welding of aluminium alloys are
        discussed, including the mechanisms for the formation of a typical
        defect, kissing bonds. Similarities and differences between the friction
        stir weld formation mechanisms and those for the extrusion processes are
        discussed. Mechanisms for the formation of kissing bonds in the three
        types of weld and the fracture surfaces of the kissing bonds are
        discussed. Based on this, suggestions are made on reducing kissing bond
        formation.
CC      OTHER JOINING PROCESSES
CT      DEFECTS; ALUMINIUM ALLOYS; LIGHT METALS; FRICTION WELDING; EXTRUSION
        WELDING; MECHANISMS; PROCESS VARIANTS; FRACTOGRAPHY; WELDED JOINTS;
        REFERENCE LISTS; OVERVIEWS

```

**WELDASEARCH****DISPLAY BIB OF PATENT**

AN 201259 WELDASEARCH  
TI Power supply apparatus with initial arcing sustaining circuit  
AU SANSHA ELECTRIC MANUFACTURING CO LTD  
CS SANSHA ELECTRIC MANUFACTURING CO LTD. JAPAN  
SO US Patent 5 877 952. Filed: 21 Oct.1997 (Japan 8-310164, 5 Nov.1996).  
Publ: 2 Mar.1999. 2 fig., 6 claims.  
DT Patent  
TC (Description)  
LA English  
NTE [Equivalent to UK Patent Application GB 2319126. Filed: 23 Oct.1997.  
Publ: 13 May 1998] [See also Weldasearch 192828]

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**In North America**

CAS  
STN North America  
P.O. Box 3012  
Columbus, Ohio 43210-0012 U.S.A.

CAS Customer Center:  
Phone: 800-753-4227 (North America)  
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Fax: 614-447-3751  
E-mail: help@cas.org  
Internet: www.cas.org

**In Europe**

FIZ Karlsruhe  
STN Europe  
P.O. Box 2465  
76012 Karlsruhe  
Germany  
Phone: +49-7247-808-555  
Fax: +49-7247-808-259  
E-mail: helpdesk@fiz-karlsruhe.de  
Internet: www.stn-international.com

**In Japan**

JAICI (Japan Association for  
International Chemical Information)  
STN Japan  
Nakai Building  
6-25-4 Honkomagome, Bunkyo-ku  
Tokyo 113-0021, Japan  
Phone: +81-3-5978-3601 (Technical Service)  
+81-3-5978-3621 (Customer Service)  
Fax: +81-3-5978-3600  
E-mail: support@jaici.or.jp (Technical Service)  
customer@jaici.or.jp (Customer Service)  
Internet: www.jaici.or.jp