

PIRA

Subject Coverage	<ul style="list-style-type: none"> Additives Company profiles Equipment Environmental issues Holography Imaging applications Machinery 	<ul style="list-style-type: none"> Marketing information Materials Nonwovens Packaging Papermaking Photography 	<ul style="list-style-type: none"> Printing Processes Products Publishing Radiography techniques Thermography
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File Type Bibliographic

Features	Alerts (SDIs)	Not available		
	CAS Registry Number® Identifiers	<input checked="" type="checkbox"/>	Page Images	<input type="checkbox"/>
	Keep & Share	<input checked="" type="checkbox"/>	SLART	<input type="checkbox"/>

Record Content

- PIRA** (PIRA & PAPERBASE - Packaging, Paper, Printing, Publishing, Imaging) is a bibliographic database containing information on business and technological developments in packaging, printing, publishing, pulp, paper, imaging, and nonwovens. Both business and technical aspects of these industries are covered, with emphasis on raw materials, production processes, machinery and equipment, environmental issues, products, and end uses. In addition, PIRA includes information relating to all aspects of imaging, including photography, holography, thermography, and radiography techniques, equipment, and applications.
- The database corresponds to the following journals: Imaging Abstracts, International Packaging Abstracts, Nonwovens Abstracts, Paperbase Abstracts, Printing Abstracts, and World Publishing Monitor
- The records contain product and company names, title, author, abstract, and controlled and supplementary terms, geographic terms, language, document type, chemical names, and CAS Registry Numbers (R). Also included are entry and update dates and publication years

File Size 813,905 records (7/2018)

Coverage 1975 to July 2018

Updates Static as of July 2018

Language English

Database Producer	Smithers PIRA Cleeve Road Leatherhead Surrey KT22 7RU United Kingdom Phone: (+44) (0) (1372) 802000 Email: info@smitherspira.com
Sources	<ul style="list-style-type: none">• Books• Conference proceedings• Journals• Newspapers• Patents• Reports• Reviews
User Aids	<ul style="list-style-type: none">• Journal List (available from the producer)• Classification Codes and Subject Headings (available from the producer)• Geographic Terms and Codes (available from the producer)• Keyword List (available from the producer)• Thesaurus of Controlled Vocabulary Terms (available from the producer)• Online Helps (HELP DIRECTORY lists all help messages available)• STNGUIDE
Clusters	<ul style="list-style-type: none">• ALLBIB• AUTHORS• BUSINESS• CASRNS• COMPANIES• ENGINEERING• ENVIRONMENT• HPATENTS• MATERIALS• PATENTS <p>STN Database Clusters information (PDF).</p>
Pricing	Enter HELP COST at an arrow prompt (=>).

Search and Display Field Codes

There are no fields that allow left truncation in this file.

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index (contains single words from the title (TI), controlled (CT) and supplementary (ST) terms, geographic term (GT), trade name (TN), corporate name (CO), abstract (AB), and chemical name (CN) fields, as well as CAS Registry Numbers (RN)) (1)	None (or /BI)	S PACKAG? S WRAP?(L)PAPER S 50-06-6 S 9002-86-2Q S VINYL CHLORIDE	AB, CO, CT, GT, RN, ST, TI, TN
Accession Number	/AN	S 90:106/AN S 1998:1234/AN	AN
Author (Inventor)	/AU	S BROWN M/AU	AU
Chemical Name	/CN	S VINYL CHLORIDE/CN	RN
Classification Code (2) (code and text)	/CC	S LAMINATE#/CC S 3246/CC S WASTE TREATMENT/CC S SONY CORP/CO	CC
Company Name (Corporate Name) (2)	/CO		CO
Controlled Term	/CT	S PROCESS?/CT S "RESEARCH AND DEVELOPMENT"/CT	CT
Document Number	/DN	S 03-92-05043/DN	DN
Document Type (code and text)	/DT (or /TC)	S JOURNAL/DT S P/DT	DT
Entry Date (3)	/ED (or /UP)	S ED>=20020700	Not Displayed
Field Availability	/FA	S AB/FA	Not Displayed
File Segment (code and text)	/FS	S IA/FS S IMAGING ABSTRACTS/FS	FS
Geographic Term	/GT	S USA/GT S NAUSA/GT	GT
International Standard (Document) Number (ISSN)	/ISN	S 0031-1340/ISN	SO
Inventor	/IN	S ADACHI H/IN	IN
Journal Title	/JT	S HEALTH SAF?/JT	JT, SO
Language (code and text)	/LA	S ENGLISH/LA;S EN/LA	LA
Patent Assignee (2) (includes PACO)	/PA (or /CS)	S RICOH/PA S 2610/PA	PA
Patent Country (code and text)	/PC	S GB/PC S UNITED KINGDOM/PC	PI
Patent Number (4)	/PN	S US5330882/PN	PI
Patent Publication Date (3)	/PD	S 20020508/PD	PI
Priority Application Country (code and text)	/PRC	S KR/PRC	PRAI
Priority Application Date (3)	/PRD	S PRD>=19940111	PRAI
Priority Application Number (4)	/PRN (or /APPS)	S US91-723346/PRN	PRAI
Priority Application Year (3)	/PRY	S 1993-1995/PRY	PRAI

Search and Display Field Codes (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Publication Year (3) Source (contains journal title, publisher, collation information, meeting information, ISBN, and ISSN)	/PY /SO	S 1991/PY S PRINT?/SO S 1-86020-550-X/SO S (IMAGING AND VOL 41)/SO S 8750-9237/SO S (INTERNATIONAL ONLINE MEETING AND 20TH)/SO	PI, PY, SO SO
Supplementary Term	/ST	S MORRIS/ST	ST
Title	/TI	S PAPER RECYCL?/TI	TI
Trade Name	/TN	S THINSULATE/TN	TN

(1) A search of a CAS Registry Number retrieves both the Registry Number and the Registry Number with a Q appended. Q is appended when more than one CAS Registry Number appears with a name in a record.

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

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

(4) Either STN format or Derwent format may be used.

DISPLAY and PRINT Formats

Any combination of formats may be used to display or print answers. Multiple codes must be separated by space or commas, e.g., D L1 AB TN or D L1 AB,TN. The fields are displayed or printed in the order requested.

Hit term highlighting is available in all display fields except JT and PY. Highlighting is set ON by default and must be ON when SEARCH is performed in order to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AB	Abstract	D L4 1-4 AB
AN (1)	Accession Number	D L1 3 AN
AU	Author	D AU 1,3-5
CC (1)	Classification Code	D CC 5-10
CO (1)	Corporate Name	D 1-3,7,8 CO
CT (1)	Controlled Term	D CT
DN	Document Number	D DN 1-5
DT (TC)	Document Type	D L1 DT 3
FS	File Segment	D 1,3,6,8 FS L5
GT (1)	Geographic Term	D GT L5
IN	Inventor	D IN PA
ISN (2)	International Standard (Document) Number (ISSN)	D ISN 2
JT (2)	Journal Title	D L8 JT 1-3
LA	Language	D 1,4 LA
PA (CS)	Patent Assignee	D PA
PI (PN, PATS) (3)	Patent Information	D PI
PRAI (PRN, APPS) (3)	Priority Application Information	D PI PRAI
PY (2)	Publication Year	D PY 3,5-8
RN (CN) (1)	CAS Registry Number and Chemical Name	D RN
SO	Source	D SO L1 4
ST (1)	Supplementary Term	D ST 3,4
TI	Title	D TI, AB
TN (1)	Trade Name	D L3 TN

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
ABS ALL BIB CBIB IAL IBIB IND (1) SAM SCAN (1,4)	AB AN, DN, TI, AU, IN, PA, PI, PRAI, SO, DT, LA, FS, AB, CC, CT, ST, CO, GT, TN, RN AN, DN, TI, AU, IN, PA, PI, PRAI, SO, DT, LA, FS (BIB is the default) AN, DN, compressed bibliographic information ALL, indented with text labels BIB, indented with text labels CC, CT, ST, CO, GT, TN, RN TI, CC, CT, ST, CO, GT, TN, RN TI, CC, CT, ST, CO, GT, TN, RN (random display without answer number)	D ABS 2 8 D 1- ALL D 2-5 BIB D CBIB L2 4 D IALL L1 D L3 IBIB D IND TOTAL D L6 SAM 7 D SCAN
HIT KWIC OCC (1)	Fields containing hit terms Hit terms with 20 words on either side (KeyWord-In-Context) Number of occurrences of hit terms and fields in which they occur	D HIT 2,8 NOH D 3 KWIC L5 D L1 OCC

(1) No online display fee for this format.

(2) Custom display only.

(3) By default, patent numbers and priority numbers are displayed in STN format. To display them in Derwent format, enter SET PATENT DERWENT at an arrow prompt. To reset display to STN format, enter SET PATENT STN.

(4) SCAN must be entered on the command line, e.g., D SCAN.

SELECT, ANALYZE, and SORT FIELDS

The SELECT command is used to create E-numbers or an L-number 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).

Field Name	Field Code	ANALYZE/ SELECT(1)	SORT
Abstract	AB	Y (2)	N
Accession Number	AN	Y	N
Author	AU	Y	Y
CAS Registry Number	RN	Y (2)	N
CAS Registry Number and Chemical Name	CHEM	Y (2)	N
Chemical Name	CN	Y	N
Classification Code	CC	Y	Y
Controlled Term	CT	Y	N
Corporate Name	CO	Y	Y
Corporate Source (Patent Assignee)	CS	Y (3)	Y
Document Number	DN	Y	Y
Document Type	DT	Y	Y
File Segment	FS	Y	Y
Geographic Term	GT	Y	Y
International Standard (Document) Number	ISN	Y	Y
International Standard Serial Number (ISSN)	ISSN	N	Y
Inventor	IN	Y	Y
Journal Title	JT	Y (4)	Y
Language	LA	Y	Y
Number of occurrences of hit terms	OCC	N	Y

SELECT, ANALYZE, and SORT FIELDS (cont'd)

Field Name	Field Code	ANALYZE/ SELECT(1)	SORT
Patent Assignee	PA	Y	Y
Patent Countries	PCS	Y (5)	N
Patent Country	PC	Y	Y
Patent Information	PI	Y (4,6)	Y
Patent Number	PN	Y (4)	Y
	PATS	Y (4,7)	N
Patent Publication Date	PD	Y	Y
Priority Application Country	PRC	Y	Y
Priority Application Date	PRD	Y	Y
Priority Application Information	PRAI	Y (4,8)	Y
Priority Application Number	PRN	Y (4)	Y
	APPS	Y (4,9)	N
Priority Application Year	PRY	Y (4)	Y
Publication Year	PY	Y (4)	Y
Source	SO	Y (10)	N
Supplementary Term	ST	Y	N
Title	TI	Y (default)	Y
Trade Name	TN	Y	Y
Treatment Code	TC	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) Appends /PA to the terms created by SELECT.
- (4) SELECT HIT and ANALYZE HIT are not valid with this field.
- (5) Selects or analyzes PC with /PCS appended to the terms created by SELECT.
- (6) Selects or analyzes patent number with /PN appended to the terms created by SELECT.
- (7) Selects or analyzes patent number with /PATS appended to the terms created by SELECT.
- (8) Selects or analyzes priority number with /PRN appended to the terms created by SELECT.
- (9) Selects or analyzes priority number with /APPS appended to the terms created by SELECT.
- (10) Selects or analyzes ISSN with /SO appended to the terms created by SELECT.

Sample Records

DISPLAY IALL

ACCESSION NUMBER: 2002:14529 PIRA
DOCUMENT NUMBER: 20215660
TITLE: Barrier material is "45% better" at keeping out carbon dioxide
AUTHOR: Anon
SOURCE: Packag. Innovation, (2002) vol. 6, no. 10, July 2002, p. 3.
DOCUMENT TYPE: JOURNAL
LANGUAGE: ENGLISH
FS 03; PK (Packaging)
ABSTRACT: Owens-Illinois Plastics Group, Food and Beverage Products, has developed a new barrier material for polyethylene terephthalate (PET) containers which is 35%-45% more effective as a carbon dioxide barrier than other formulations. Called SurShield it achieves this at less cost and with less material, while retaining the proprietary active oxygen and carbon dioxide barriers it provides for beverages and beers. SurShield's use as a multi layer is enhanced when it is precisely introduced as an interlayer using the SurShot proprietary system which can precisely meter the introduction of SurShield down to 1.5% of the total package weight. Owens-Illinois believes that no other company can match its consistency at such low levels. SurShield also widens the range of suitable products which can be packaged in smaller packs. (Short article)
CLASSIFICATION: Rigid and semi-rigid plastics and laminate packs; 3440
CONTROLLED TERM: BARRIER MATERIAL; BEVERAGE; CARBON DIOXIDE; COST SAVING; HEADLINE; JULY02; NEW MATERIAL; PLASTIC CONTAINER; POLYETHYLENE TEREPHTHALATE
COMPANY NAME: Owens Illinois
GEOGRAPHIC TERM: Europe; United Kingdom; EU;EZUKM
TRADE NAME: SurShield
CAS REGISTRY NO.: 124-38-9 (CARBON DIOXIDE)
7782-44-7 (OXYGEN)
25038-59-9 (POLYETHYLENE TEREPHTHALATE)

DISPLAY BIB

AN 2002:14710 PIRA
DN 40039112
TI Image Processing
IN Zell J; Brett S
PI GB 2368994 15 May 2002
PRAI GB 2000-22071 8 Sep 2000
SO (2002) .
DT PATENT
LA ENGLISH
FS 06; IA (Imaging Abstracts)

PIRA**DISPLAY IND**

CC Paper and board making; 1180
CT ADSORPTION; ALUMINOSILICATE; CLAY; FILLER; FUNCTION; LABORATORY;
MARKETING; NEW MATERIAL; PH; PITCH CONTROL; PROPERTY; SODIUM
ALUMINOSILICATE; STRENGTH; SYSTEM; WASTE PAPER; WATER; WHITE PITCH
ST Abe K; Sango K; Thutida H
CO MIZUSAWA CHEMICAL INDUSTRIES KK
GT ASIA; JAPAN; AS;ASJAP
TN SILTON LP
RN 1327-36-2 (ALUMINOSILICATE)
1344-00-9 (SODIUM ALUMINOSILICATE)

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