2MOBILITY (Global Mobility Standards Database)

Subject Coverage

- Automation
- Emissions
- Environment
- Fuels & Lubricants
- Human factors
- Management
- Manufacturing
- Marketing
- Materials
- Noise & Vibration
- Population
- Reliability
- Research & Design
- Quality
- Safety
- Stands & Specifications
- Testing
- Transportation

File Type

Bibliographic

Features

Thesaurus	None				
Alerts (SDIs)	None				
CAS Registry Numbers® Identifiers	☐	Page Images	☐	STN® AnaVist™	☐
Keep & Share	☐	SLART	☑	STN Easy®	☐
Learning Database	☐	Structures	☐		

Record Content

- Bibliographic information
- Controlled and supplementary terms
- Abstracts

File Size

11,645 records (08/2019

Coverage

1936-present

Updates

Reloaded monthly

Language

English

Database Producer

SAE International
400 Commonwealth Drive
Warrendale, PA 15096
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Telefax:(724) 776-3036

Database Supplier

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Sources	Standards and specifications
User Aids	• Online Helps (HELP DIRECTORY lists all help messages available) • STNGUIDE
Clusters	• ALLBIB • ENGINEERING • FUELS • MATERIALS • MOBILITY • SAFETY STN Database Clusters information (PDF).
Pricing	Enter HELP COST at an arrow prompt (=>).

Search Display Field Codes

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

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (contains single words from the abstract (AB), controlled Term (CT), supplementary term (ST), and title (TI) fields) **(1)**	None (or /BI)	S TRUCK AND BRAKE# S PASSENGER CARS/BI S SAE(S)STANDARD S ?CYLINDER/AB	AB, CT, ST, TI
Abstract **(1)**	/AB	S CAE/AB	AB
Accession Number	/AN	S 2005:59/AN	AN
Classification Code **(2)**	/CC	S SPACE/CC S "AIR OR SPACE"/CC	CC
Controlled Term	/CT	S ADHESIVE?/CT	CT
Controlled Word	/CW	S (METAL(S)REPAIR#)/CW	CT
Country of Publication (ISO code and text)	/CY	S US/CY S UNITED STATES/CY	CY
Cross Reference	/CR	S AATCC TEST?/CR	CR
Document Number	/DN	S SAE AIR 1167/DN	DN
Document Type	/DT (or /TC)	S STANDARD/DT S S/DT	DT
Entry Date **(3)**	/ED (or /UP)	S ED>=2012	ED
Field Availability	/FA	S AB/FA	FA
File Segment (code and text)	/FS	S SAE/FS S DIN/FS	FS
Language (ISO code and text)	/LA	S EN/LA S ENGLISH/LA	LA
Note	/NTE	S DIN/NTE	NTE
Publication Date **(3)**	/PD	S PD>20050411 AND FASTENERS/CT	PD, SO
Publication Year **(3)**	/PY	S 2003-2005/PY	PY, SO
Source (contains publishing and source information, location, publication date, and publication year)	/SO	S (REG? AND SAFETY AND HIGHWAY)/SO	SO
Supplementary Term	/ST	S INCONEL 7?/ST	ST
Title* **(1)**	/TI	S BRAKE CYLINDER#/TI	TI

(1) In 2MOBILITY a numeric search for a specific set of physical properties (/PHP) is available within the English full text fields (AB, BI, TI). The numeric values are not displayed as single fields, but highlighted within the hit displays. Use EXPAND/PHP to search for all available physical properties. A search with the respective field codes will be carried out in all database fields with English text. The /PHP index contains a complete list of codes and related text for all physical properties available for numeric search. See HELP NPS.

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

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

DISPLAY and PRINT Formats

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

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

Format	Content	Examples
AB	Abstract	D L4 1-4 AB
AN	Accession Number	D L1 3 AN
CC	Classification Code	D CC 5-10
CR	Cross Reference	D 1-3,7,8 CR
CT	Controlled Term	D CT
CY	Country of Publication	D CY 1-5
ED	Entry Date	D ED
FA **(1)**	Field Availability	
DN	Document Number	D L1 DN 3
DT (TC)	Document Type	D 1,3,6 DT L5
FS	File Segment	D FS
LA	Language	D 1,4 LA
NTE	Note	D NTE
PY **(1)**	Publication Year	D PY
SO	Source	D SO
ST	Supplementary Term	D L3 ST
TI	Title	D TI 2
ABS	AB	D 2,6 ABS
ALL	AN, DN, CR, TI, SO, CY, DT, FS, LA, ED, AB, CC, CT, ST	D L1 ALL
DALL	ALL, delimited for post processing	D DALL
IALL	ALL, indented with text labels	D IALL 3
BIB	AN, DN, CR, TI, SO, CY, DT, FS, LA, ED (default)	D BIB
IBIB	BIB, indented with text labels	D L4 IBIB 2 5
IND	CC, CT, ST	D IND L8
SCAN **(2)**	TI, CC, CT, ST (random display without answer number)	D SCAN
TRIAL (TRI, SAMPLE, SAM, FREE)	AN, TI, CC, CT, ST	D 1-5 SAM
HIT	Fields containing hit terms	D HIT
KWIC	Hit term with 50 words on either side (KeyWord-In-Context)	D KWIC
OCC **(1)**	Number of occurrences of hit terms and fields in which they occur	D OCC

(1) Custom display only.
(2) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

Property Fields[1)]

In 2MOBILITY a numeric search for a specific set of physical properties (/PHP) is available within the full-text fields (TIEN, AB, DETD, and CLM). The numeric values are not displayed as single fields, but highlighted within the hit displays.

Use EXPAND/PHP to search for all available physical properties. A search with the respective field codes will be carried out in all database fields with English text. The /PHP index contains a complete list of codes and related text for all physical properties available for numeric search.

Field Code	Property	Unit	Symbol	Search Examples
/AOS	Amount of substance	Mol	mol	S 10 /AOS
/BIR	Bit Rate	Bit/Second	bit/s	S 330/BIR
/BIT	Stored Information	Bit	Bit	S BIT > 3 MEGABIT
/CAP	Capacitance	Farad	F	S 1-10 MF/CAP
/CDN	Current Density	Ampere/Square Meter	A/m^2	S CDN>10 A/M**2
/CMOL	Molarity, Molar Concentration	Mol/Liter	mol/L	S UREA/BI (S) 2/CMOL
/CON	Conductance	Siemens	S	S 1S-3/CON
/DB	Decibel	Decibel	dB	S DB>50
/DEG	Degree	Degree	°	S CYLINDER/BI (S) 45/DEG
/DEN	Density (Mass Concentration	Kilogram/Cubic Meter	kg/m^3	S ANTIBODY/CLM (S) 5E-3-10E-3/DEN
/DEQ	Dose Equivalent	Sievert	Sv	S 2/DEQ
/DOS	Dosage	Milligram/Kilogram	mg/kg	S DOS>0.8
/DV	Viscosity, dynamic	Pascal * Second	Pa * s	S DV>5000
/ECD	Electric Charge Density	Coulomb/Square Meter	C/m^2	S 1 C/M**2 /ECD
/ECH	Electric Charge	Coulomb	C	S 2-3/ECH
/ECO	Electrical Conductivity	Siemens/Meter	S/m	S ECO>800 S/M (5A) METAL
/ELC	Electric Current	Ampere	A	S 1-10/ELC
/ELF	Electric Field	Volt/Meter	V/m	S 650-700/ELF
/ENE	Energy	Joule	J	S TORQUE (5A) 20 - 30 /ENE
/ERE	Electrical Resistivity	Ohm * Meter	Ohm * m	S ERE>2
/FOR	Force	Newton	N	S 50 N /FOR
/FRE	Frequency	Hertz	Hz	S OSCILLAT?/BI (S) 1- 3/FRE
/IU	International Unit	none	IU	S IU>1000 (P) ANTIBIOTIC
/KV	Viscosity, kinematic	Square Meter/Second	m^2/s	S SILICON?/BI (5A) 10E-5 M**2/S /KV
/LEN (or /SIZ)	Length, Size	Meter	m	S 1-4/LEN
/LUME	Luminous Emittance, Illuminance	Lux	lx	S 10-50/LUME
/LUMF	Luminous Flux	Lumen	Lm	S LUMF>1000
/LUMI	Luminous Intensity	Candela	cd	S LUMI<4
/M	Mass	Kilogram	kg	S ALLOY/BI (30A) 1E-10-1E-5/M
/MCH	Mass to Charge Ratio	none	m/z	S MCH=100
/MFD (or /MFS)	Magnetic Flux Density	Tesla	T	S MFD>102
/MFR (or /MFL)	Mass Flow Rate	Kilogram/Second	kg/s	S MFR<0.1
/MM	Molar Mass	Gram/Mol	g/mol	S 2000-3000 G/MOL/MM
/MOLS	Molality of Substance	Mol/Kilogram	mol/kg	S 01.-10 MOL/KG/MOLS
/MVR	Melt Volume Rate, Melt Flow Rate	none	g/10 min	S 3/MVR
/NUC	Nutrition Content	none	g/100 kcal	S NUC<100 (P) NUTRIENT
/PER	Percent (Proportionality)	none	%	S POLYMER?/AB (5A) 4/PER
/PERA	Permittivity, Absolute	Farad/Meter	F/m	S DIELECTRIC/BI (S) 4- 4.1/PERA
/PHV	pH Value	pH	pH	S 7.4-7.6/PHV

Property Fields (cont'd)

Field Code	Property	Unit	Symbol	Search Examples
/POW	Power	Watt	W	S LIGHT/BI (S) ENERGY/BI (S) 350 WATT/POW
/PRES (or /P)	Pressure	Pascal	Pa	S (VACUUM (5A) DISTILL?)/BI (S) 1000-1100/PRES
/RAD	Radioactivity	Becquerel	Bq	S RAD/PHP
/RES	Electrical Resistance	Ohm	Ohm	S SENSOR /BI (S) 10- 100/RES
/RSP	Rotational Speed	Revolution/Minute	rpm	S 2-100/RSP (S) MACHINE/AB
/SAR	Area /Surface Area	Square Meter	m^2	S (COATING? OR FOIL?)/BI (S) 10-100/SAR
/SOL	Solubility	Gram/100 gram	g/100 g	S SOL>20 (10W) WATER
/STSC	Surface Tension	Joule /Square Meter	J/m^2	S 60 J/M**2/STSC
/TCO	Thermal Conductivity	Watt/Meter * Kelvin	W/m * K	S 1/TCO (S) HEAT?
/TEMP (or /T)	Temperature	Kelvin	K	S (REACTION? (10A) ENZYM?) (S) 5/TEMP
/TIM	Time	Second	s	S ?INCUB?/BI (10A) 10-50/TIM
/VEL (or /V)	Velocity	Meter per Second	m/s	S REDUC?/BI (S) 1E-3-5E-3/VEL
/VELA	Velocity, angular	Radian/Second	rad/s	S VELA>10
/VLR	Volumetric Flow Rate	Cubic Meter/Second	m^3/s	S 1-2/VLR (5A) POWDER
/VOL	Volume	Cubic Meter	m^3	S 1E-8-2E-8/VOL.EX
/VOLT	Voltage	Volt	V	S POTENTIAL/CLM (10A) 5E-3 V <VOLT<7E-3 V

1) Exponential format is recommended for the search of particularly high or low values, e.g. 1.8E+7 or 1.8E7 (for 18000000) or 9.2E-8 (for 0.000000092).

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	Y
Accession Number	AN	Y	Y
Classification Code	CC	Y	Y
Controlled Term	CT	Y	Y
Country of Publication	CY	Y	Y
Cross Reference	CR	Y	Y
Document Number	DN	Y	Y
Document Type	DT (TC)	Y	Y
Entry Date	ED	Y	Y
Field Availability	FA	Y	N
File Segment	FS	Y	Y
Language	LA	Y	Y
Occurrence Count of Hit Terms	OCC	N	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y	Y
Supplementary Term	ST	Y	Y
Title	TI	Y (default)	Y
Update Date	UP	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.

Sample Records

DISPLAY ALL

AN 2010:11746 2MOBILITY
DN SAE J 2461
CR SAE J 1683; SAE J 1924; SAE J 2214; SAE J 2286; TMC RP1210
TI Vehicle Electronic Programming Stations (VEPS) System Specification for Win32®
SO 3:36 (5 Feb 2010), pp. 333
Published by: SAE International, Warrendale, Pennsylvania, USA
Source Note: Other Number: J2461
CY United States of America
DT Standard; (RECOMMENDED PRACTICE)
FS SAE
LA English
ED Entered STN: 15 Feb 2012
Last updated on STN: 15 Feb 2012
AB SAE J2461 specifies the recommended practices of a Vehicle Electronics Programming Stations (VEPS) architecture in a Win32® environment. This system specification, SAE J2461, was a revision of the requirements for Vehicle Electronics Programming Stations (VEPS) set forth in SAE J2214, Vehicle Electronics Programming Stations (VEPS) System Specification for Programming Components at OEM Assembly Plants (Cancelled Jun 2004). SAE J22214 standard has been cancelled indicating that it is no longer needed or relevant. SAE J 2461 describes the application of the Win32® environment to the customization of programmable components assembled in OEM vehicles, where components provide a communication API such as TMC RP120. Because the customization is performed using both OEM-provided and vendor-provided software, the roles and responsibilities of the vendor and OEM elements must be defined to permit the development of common vendor software elements for all Original Equipment Manufacturers (OEMs).
SAE J 2461 identifies the system resources of a Win32® computer between OEM and vendor components, the required elements comprising VEPS, and specifies the software interfaces needed between the OEM-supplied elements and the vendor-supplied elements. By maintaining many common elements with SAE J 2214, an orderly transition from a MS-DOS® based VEPS to a Win32® VEPS can be achieved. SAE J 2286 is the software interface element of SAE J 2214 that specifies the Vendor Component Program Data File Interface for OEM Assembly Operations. SAE J 2286 will still be the Data File Interface used for the Win32® VEPS. TMC RP1210 describes the communication API used by the vendor programs.
The OEMs typically are horizontally integrated. Each major vehicle component has multiple vendors who compete for component sales in OEM markets. Customer orders determine a set of components from this variety to meet the vehicle's desired performance requirements. Customization and calibration of these components for the vehicle's application necessitates the need for a standard method to perform this programming without causing the OEM to install special VEPS for each vendor component. Hence the existence of MS-DOS® SSAE J2214. As the need for more applications grow at OEM VEPS, a more flexible solution to the current RP is needed. Win32® SAE J 2461 provides such a solution.
CC Land or Sea
CT Communication systems; Computer equipment; Electronic equipment; Interface protocols

DISPLAY BIB

```
AN   2010:235  2MOBILITY
DN   SAE J 2461
TI   Vehicle Electronic Programming Stations (VEPS) System Specification for
     Win32(TM)
SO   (2010 Feb 05) 3:36. SAE International, Warrendale, Pennsylvania, USA.
     Other Number: J2461.
CY   United States
DT   Standard; (RECOMMENDED PRACTICE)
FS   SAE
LA   English
```

DISPLAY SCAN

```
TI   Elastomeric Bushing 'TRAC' Application Code
CC   Land or Sea
CT   Bushings; Coding
```

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