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	☐	SLART	☑
Keep & Share	☐	Structures	☐

Record Content

- Bibliographic information
- Controlled and supplementary terms
- Abstracts

File Size

More than 13,074 records (06/2025)

Coverage

1936-present

Updates

Reloaded monthly

Language

English

Database Producer

SAE International
400 Commonwealth Drive
Warrendale, PA 15096

Sources

Standards and specifications

User Aids

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

Clusters

- ALLBIB
- ENGINEERING
- FUELS
- MATERIALS
- MOBILITY
- NPS
- SAFETY

STN Database Cluster information

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 COMMERCIAL VEHICLE/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	DT
Entry Date **(3)**	/ED (or /UP)	S ED>=2020	ED
Field Availability	/FA	S AB/FA	FA
File Segment (code and text)	/FS	S SAE/FS	FS
Language (ISO code and text)	/LA	S EN/LA S ENGLISH/LA	LA
Note	/NTE	S STABILIZED/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 (UP)	Entry Date	D ED
FA **(1)**	Field Availability	D FA
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	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 text fields (BI, AB, and 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.

Field Code	Property	Unit	Symbol	Search Examples
/AOS	Amount of substance	Mol	mol	S 10 /AOS
/BIR	Bit Rate	Bit/Second	bit/s	S 8000-10000/BIR
/BIT	Stored Information	Bit	Bit	S BIT > 3 MEGABIT
/CAP	Capacitance	Farad	F	S 1-10 MF/CAP
/CATA	Catalytic Activity	Katal	kat	S 1-10/CATA
/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) 8/CMOL
/CON	Electrical Conductance	Siemens	S	S 1S-3/CON
/DB	Decibel	Decibel	dB	S DB>50
/DEG	Degree	Degree	°	S CYLINDER/BI (S) 45/DEG
/DEN (/C)	Density (Mass Concentration	Kilogram/Cubic Meter	kg/m^3	S 5E-3-10E-3/DEN
/DEQ	Dose Equivalent, Absorbed Dose	Sievert	Sv	S 100/DEQ
/DOA	Dosage	Milligram/Kilogram/Day	mg/kg/day	S 100-300/DOA
/DOS (/LD50)	Dose	Milligram/Kilogram	mg/kg	S DOS>0.8
/DV	Viscosity, dynamic	Pascal * Second	Pa * s	S DV>5000
/ECH (/CHA)	Electric Charge, Capacity	Coulomb	C	S 0.0001-0.001/ECH
/ECO (/ECND)	Electrical Conductivity	Siemens/Meter	S/m	S ECO>800 S/M (15A) AQUEOUS
/ELC (/ECC)	Electric Current	Ampere	A	S 1-10/ELC
/ELF (/ECF)	Electric Field	Volt/Meter	V/m	S 200/ELF
/ENE	Energy	Joule	J	S DROPLETS (10A) 40 JOULE - 70 JOULE /ENE
/ERE (/ERES)	Electrical Resistivity	Ohm * Meter	Ohm * m	S ERE>0.1
/FOR	Force	Newton	N	S 50 N /FOR
/FRE (/F)	Frequency	Hertz	Hz	S OSCILLAT?/BI (S) 1- 3/FRE
/IU	International Unit	none	IU	S IU>1000 (P) VITAMIN A
/KV	Viscosity, kinematic	Square Meter/Second	m^2/s	S METHYLPOLYSILOXANES/BI (10A) 200-300 CST /KV
/LEN (/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=1
/MFD (/MFS)	Magnetic Flux Density	Tesla	T	S MFD>102
/MFR (/MFL)	Mass Flow Rate	Kilogram/Second	kg/s	S MFR<0.1
/MFST	Magnetic Field Strength	Ampere/Meter	A/m	S MFST/PHP
/MM (/MW, /MOM)	Molar Mass, Molecular Weight	Gram/Mol	g/mol	S 2000-3000 G/MOL/MM

Property Fields[1] (cont'd)

Field Code	Property	Unit	Symbol	Search Examples
/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
/PER	Percent (Proportionality)	none	%	S POLYMER?/AB (5A) 4/PER
/PHV (/PH)	pH Value	pH	pH	S 7.4-7.6/PHV
/POW (/PW)	Power	Watt	W	S "HG-XE-?"/BI (S) 100-200 WATT/POW
/PPM	Parts per million	Ppm	ppm	S 100 PPM /PPM (10A) ADDITIVE/BI
/PRES (/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
/RI	Refractive Index	none	none	S 3-4/RI
/RSP	Rotational Speed	Revolution/Minute	rpm	S 2 RPM - 100 RPM /RSP (S) ENGINE/BI
/SAR	Area	Square Meter	m^2	S PLATE/BI (S) 10 M**2 - 100 M**2 /SAR
/SOL (/SLB)	Solubility	Gram/100 gram	g/100 g	S SOL>20 G/100G (5A) WATER
/SSAM	Specific Surface Area, Mass	Square Meter/ Kilogram	m2/kg	S 1-10/SSAM
/STSC (/ST)	Surface Tension, Spring Constant	Joule /Square Meter	J/m^2	S 60 J/M**2/STSC
/TCO (/TCND)	Thermal Conductivity	Watt/Meter * Kelvin	W/m * K	S 1/TCO (S) HEAT?
/TEMP (/T)	Temperature	Kelvin	K	S 20-25/TEMP
/TEX	Tex	Gram/Kilometer	g/km	S 1-5/TEX
/TIM	Time	Second	s	S ?INCUB?/BI (10A) 50 S - 150 S /TIM
/VEL (/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 M**3/S - 2 M**3/S /VLR (S) ABRASIVE
/VOL	Volume	Cubic Meter	m^3	S 1E-8-2E-8/VOL.EX
/VOLT	Voltage	Volt	V	S TENSION/BI (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 (UP)	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

(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

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AN      2022:430   2MOBILITY
DN      AS604F
CR      AMS5556; AMS5557; AMS5561; AMS5567; AMS5570; AMS5571; AMS5573; AMS5575;
        AMS5581; AMS5639; AMS5643; AMS5644; AMS5645; AMS5646; AMS5647; AMS5648;
        AMS5653; AMS5659; AMS5666; AMS5688; AMS5689; AMS5690; AMS5697; AMS5743;
        AMSQQP35; AMSQQS763; ARP1835; ARP908; AS1055; AS1072; AS150; AS2078;
        AS33514; AS4375; AS4395; AS611; AS7003; AS7112; AS85421; AS85421/1;
        AS8879; ASME/B46.1; ASMEY14.100; ASMEY14.24; ASMEY14.34M; ASMEY14.35M;
        ASTMA262; ASTMA313; ASTMA580; MIL-C-5501; MIL-F-85421/1; MIL-H-5606;
        MIL-HDBK-831; MIL-PRF-7808; MIL-PRF-83282; MIL-PRF-87257; MIL-STD-100;
        MIL-STD-130; NAS1760; NAS847; P-D-680; PD2001; PD2101
TI      Hose Assembly, Polytetrafluoroethylene, Metallic Reinforced, 3000 psi,
        400 °F, Heavyweight, Hydraulic
SO      (20 Jun 2022), 24 p.
        Published by: SAE International, 400 Commonwealth Drive, Warrendale, PA,
        United States
        Source Note: Other Number: AS604
NTE     Reaffirmed Date: 2007.01.01; Status: Revised
CY      United States
DT      Standard
FS      SAE
LA      English
ED      Entered STN: 2 May 2025
        Last updated on STN: 2 May 2025
AB      This SAE Aerospace Standard (AS) defines the requirements for a heavy
        braid polytetrafluoroethylene (PTFE) lined, metallic reinforced, hose
        assembly suitable for use in high temperature, 400 °F, high
        pressure, 3000 psi, aircraft hydraulic fluid systems, also for use in
        pneumatic systems which allow some gaseous diffusion through the PTFE
        wall. The -20 size operating temperature is limited to 275 °F
        maximum.
CC      Aerospace
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DISPLAY BIB

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AN      2025:104   2MOBILITY Full-text
DN      AMS4351B
TI      Aluminum Alloy, Plate (7065-T7651), 7.7Zn - 2.1Cu - 1.65Mg - 0.10Zr,
        Solution Heat Treated, Stress-Relieved, and Overaged
SO      (10 Dec 2024), 8 p.
        Published by: SAE International, 400 Commonwealth Drive, Warrendale, PA,
        United States
NTE     Status: Revised
CY      United States
DT      Standard
FS      SAE
LA      English
ED      Entered STN: 2 May 2025
        Last updated on STN: 2 May 2025
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