

# SAE AEROSPACE STANDARDS

Since the introduction of the first interchangeable spark plug standard in 1917, SAE International has been at the forefront of the ground vehicle industry setting the standards from safety to emissions and design to manufacturing.

Global standards are essential for aircraft certification airworthiness and interoperability. With over 8,500 active Aerospace standards in its repository, SAE is the largest and most trusted aerospace standards development organization (SDO)



## WHY SAE AEROSPACE STANDARDS?

- **1800 SAE standards** are used in the development of a typical aircraft
- **313 SAE standards** referenced in FAA, TSOs, ACs, FAA-STDs, and FARs
- **117 SAE documents** are referenced in the EASA CS, AMCs, and ETSOs
- Since 2004, there have been an average of **500+ new/revised standards** each year
- US Department of Defense has adopted **more SAE Standards than any other SDO**

## SAE'S PARTNERS IN GLOBAL STANDARDS DEVELOPMENT

Over the last 100 years, SAE has been partnering with industry to discover solutions its common solutions. Today, it works with companies – and other SDO's around the world – to create and harmonize standards for the advancement of the global aerospace industry.

- International Air Transport Association (IATA)
- NATO Standardization Agency (NSA)
- China Aero Polytechnical Establishment (CAPE)
- European Organization for Civil Aviation Equipment (EUROCAE)
- AeroSpace and Defense Industries Association of Europe (ASD-STAN)
- Society of Japanese Aerospace Companies (SJAC)
- National Center for Advanced Materials Performance (NCAMP)
- Federal Aviation Administration (FAA)
- European Aviation Safety Agency (EASA)
- International Civil Aviation Organization (ICAO)
- International Aerospace Quality Group (IAQG)

## TYPES OF AEROSPACE STANDARDS:

- Aerospace Standards (AS) - specific performance requirements used for design standards, parts standards, minimum performance standards, quality and other areas conforming to broadly accepted engineering practices or specs for a material, product, process, procedure or test method.
- Aerospace Material Specifications (AMS) – specific performance requirements for material and process specifications.
- Aerospace Recommended Practices (ARP) – documentations of practice, procedures, and technology that are intended as guides to standard engineering practices.
- Aerospace Information Reports (AIR) – compilations of engineering reference data, historical information, or educational material useful to the technical community.
- Aerospace Resource Document (ARD) - Aerospace technical reports providing technical and non-technical information which may support a technical report.
- Metric Aerospace Standard (MA) - Metric Equivalent to the respective Aerospace Standard.
- Metric Aerospace Recommended Practice (MAP) - Metric equivalent to the respective Aerospace Recommended Practice. Former TechAmerica Standards (EIA, GEIA, HEB, SSB, TA, TB) - cover a range of electronics issues including human systems integration, avionics processes, systems engineering, systems safety and solid state devices

## HOW TO SUBSCRIBE:

Get full-text access on the SAE MOBILUS platform to the database of standards you need. With this platform use the highly-targeted search features to quickly find the documents you need. The latest versions of your standards will be uploaded instantly and available with one-click downloading.

### AEROSPACE STANDARDS DATABASE

- Includes Aerospace Standards (AS), Aerospace Recommended Practices (ARP), Aerospace Information Reports (AIR), Aerospace Resource Document (ARD), Metric Aerospace Standard (MA), Metric Aerospace Recommended Practice (MAP), Former TechAmerica standards collections (EIA, GEIA, HEB, SSB, TA, TB)

### AEROSPACE MATERIAL SPECIFICATIONS DATABASE

- Covers materials, material tolerances, and quality control procedures and processes.

### SAE ITC ENGINE & AIRFRAMES DATABASE

- Aerospace standards and additional manufacturing and inspection requirements issues as referenced sheets (RS) and technical specifications (TS) for engine, airframe fasteners, and electrical connectors

### ADD-ON SUBSCRIPTIONS:

- **2D/3D Configurator and Graphic File Download Options** – Visualize and configure specific components before generating a 2D/3D model that can be saved into more than 150 native and neutral CAD and graphic formats
- **Redlined Standards**- standards in which historical revisions contain dynamic redlined markups that visually display changes.
- **Historical Aerospace Standards** – Historical versions of aerospace standards
- **Historical Aerospace Material Specifications** – Historical versions of aerospace materials specifications
- **Additional locations/users** - Expand your access across your organization and the globe with multiple locations and the numbers of users.



## THE NEW SAE MOBILUS PLATFORM – YOUR DESTINATION FOR MOBILITY ENGINEERING RESOURCES.

The SAE MOBILUS platform is the only library that focuses and delivers engineering content specific to the mobility industry. No other engineering library can provide the industry-related resources you need. Designed to streamline project workflow and simplify technical research, the SAE MOBILUS platform gives your organization single-point access to the aerospace standards you need.

## SUBSCRIBE TODAY

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