

Home Page

The screenshot shows the VAC AERO International Inc. website. At the top, there is a navigation bar with links for HOME, COMPANY, VACUUM FURNACES, THERMAL PROCESSING, COATINGS, SERVICE & SUPPORT, RESOURCES, CONTACT US, and REQUEST FOR QUOTE. The main content area features a sidebar with links to various articles and a central section titled 'Glossary Metallurgical Terms (Metals Reference Terms)'. This section includes a sub-header 'Glossary of Metallurgical and Metalworking Terms', a paragraph stating 'THIS GLOSSARY contains the definitions of some 3500 technical terms encountered in the metallurgical literature.', a list of topics covered (general materials science, physical metallurgy, mechanical metallurgy, extractive metallurgy, etc.), and an alphabetical index (A B C D E F G H I J K L M N O P Q R Sa-Sq St-Sy T U V W X Y Z). Social media icons for Facebook, Google+, Twitter, and LinkedIn are present at the bottom of the page.

Logo



URL

http://vacaero.com/information-resources/glossary-metallurg-terms.html

Subject

Metallurgy - Dictionaries

Accessibility

Free

Language

English

Publisher

VACAERO International Inc.

Scope and Coverage

This glossary contains the definitions of 3500 technical terms, related to metallurgical literature. The terms are covered various topic like general materials science, physical metallurgy, mechanical metallurgy, extractive metallurgy, melting and casting, forming and forging, powder metallurgy, heat treating, machining and grinding, welding and joining (brazing,

soldering, and adhesive bonding), surface engineering (cleaning, finishing, and coating technology), corrosion and electrochemistry, tribology (wear, friction, and lubrication technology), fracture mechanics, mechanical testing, nondestructive testing and inspection, metallography, fractography, failure analysis, and materials characterization etc.

### ***Kind of Information***

Terms are available with definitions and explanation in this dictionary. See and See also references are found after the terms or after the meaning of the terms. Some of the entries are cross referenced. Some examples are given below for clear understanding.

#### **fatigue strength at N cycles (SN)**

A hypothetical value of stress for failure at exactly N cycles as determined from an S-N curve. The value of SN thus determined is subject to the same conditions as those that apply to the S-N curve. The value of SN that is commonly found in the literature is the hypothetical value of maximum stress,  $S_{max}$ , minimum stress  $S_{min}$ , or stress amplitude,  $S_a$ , at which 50% of the specimens of a given sample could survive N stress cycles in which the mean stress  $S_m = 0$ . This is also known as the median fatigue strength at N cycles.

**See also** S-N curve.

#### **“arc oxygen cutting”**

**See** preferred term oxygen arc cutting.

#### **“arc plasma”**

**See** plasma arc cutting .

#### **“banding”**

Inhomogeneous distribution of alloying elements or phases aligned in filaments or plates parallel to the direction of working.

**See also** banded structure , ferrite-pearlite banding , and segregation banding.

### ***Special Features***

- ❖ It has links to social networking site like Facebook, Twitter, Google + and Pinterest, Instagram etc.
- ❖ Links to other resources are includes.
- ❖ A general contact, suggestions option available here.

***Arrangement Pattern*** In this dictionary terms are arranged in alphabetic order. For example under the alphabet 'F' the terms like Face, face milling, face-type cutters, failure, failure mechanism, false bottom, false brinelling etc. are arranged alphabetically.

***Remarks*** This freely available online dictionary on metal or metallurgical related terms is a great help for the students, researchers, teachers and other interested people of all round the globe.

***Comparable Tools***

- Metallurgical Terminology Glossary  
(<https://www.metaltek.com/resources/library/glossary>)
- A Glossary of Ferrous Metallurgy Terms  
(<http://www.davistownmuseum.org/PDFs/GlossaryOfFerrousMetallurgyTerms.pdf>)

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