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This information, referred to as chemical metallurgy, is an important part of the bank of knowledge required in the welding industry. If a welder understands  $H_2O$ , he knows that when water appears on the surface of metal as it is heated, the H (hydrogen) in the compound is the element that causes cracking if it is trapped in the weld. He must use a preheat chart to determine the amount of heat that the welding industry has established for diffusing the hydrogen.

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## Basic metallurgy for welders - The Fabricator - Metal

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From a welding metallurgy standpoint, that weld consists of metal that has been melted, the heat-affected zone (HAZ), and unaffected base metal. The metallurgy of the weld, as well as the area around it, is directly related to the composition of the base metal (the metal you started with), the weld metal (the admixture of melted base metal and deposited filler metal, if used), heat input, the size of the HAZ, and the process and procedures used.

## Metallurgy Matters: The science of welding metallurgy

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Metallurgy of Basic Weld Metal (Woodhead Publishing Series in Welding and Other Joining Technologies) 1st Edition by G M Evans (Author), Norman Bailey (Author) ISBN-13: 978-1855732438

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Basic principles of welding. A weld can be defined as a coalescence of metals produced by heating to a suitable temperature with or without the application of pressure, and with or without the use of a filler material. In fusion welding a heat source generates sufficient heat to create and maintain a molten pool of metal of the required size. The heat may be supplied by electricity or by a gas flame.

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The title of this book is Metallurgy of Basic Weld Metal and it was written by G. M. Evans, N. Bailey. This particular edition is in a Hardcover format. This books publish date is Jun 01, 1997 and it has a suggested retail price of \$225.00. It was published by William Andrew Publishing and has a total of 448 pages in the book.

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