GUIDELINES FOR HANDLING MOLTEN ALUMINUM

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Guidelines for Handling Molten Aluminum Fourth Edition - 2016

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Foreword

The original *Guidelines* were first issued by the Aluminum Association in 1980, quickly followed by a first revision in 1982. In 1990, a second edition was published which presented information and practices available up to that time. In 2002, a third edition was released which was reflective of the ongoing evolution of molten metal safety management programs.

It is clear from the revision history noted above that practices and equipment for melting and casting aluminum are continually being modified and improved for a variety of reasons. In addition, information from industry reporting programs and research efforts spearheaded by the Aluminum Association and its member companies is continually being generated Therefore, in order to capture and disseminate updated information in these areas, these guidelines undergo periodic review and revision toward the goal of making the aluminum industry workplace safer.

This fourth edition of the *Guidelines* was prepared with technical input and review by industry representatives with considerable expertise in all aspects of handling molten aluminum. Basic information has been retained, but considerable change has been made to the organization and presentation of the subject matter. New sections have been added and the existing sections have been significantly updated and expanded to incorporate the new information available since publication of the third edition. In particular, new information has been added on 1) the management of the hazards presented by combustible aluminum dust, 2) the unique hazards of managing aluminum-lithium alloys, and 3) mobile equipment safety in the casthouse.

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