

## METAL CLEANING BIBLIOGRAPHICAL ABSTRACTS—1842-1951

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### FOREWORD

These Bibliographical Abstracts are intended to make the published data on metal cleaning readily available to the many persons concerned with the production, finishing, and maintenance of metal products. This publication has been made possible by the intensive efforts of Jay C. Harris in collecting, arranging, and indexing over 1000 annotated references to the literature on metal cleaning.

The task of organizing the data concerning metal cleaning was initiated by Jay C. Harris and Robert B. Mears in 1943, with aluminum cleaning<sup>2</sup> as the first objective. It was believed that by narrowing the field of endeavor more pertinent data might become available for immediate use by the Subcommittee on Metal Cleaners, of the ASTM Committee D-12 on Soaps and Other Detergents. Subsequent issues of the "Annotated Bibliography of Aluminum Cleaning"<sup>3</sup> were made, but by this time it had become evident that techniques and information from other metal cleaning endeavors were of definite interest, even in the cleansing of aluminum. The last addition to the Annotated Bibliography prepared by Messrs. Harris and Mears was printed as a supplement and the whole included in the Compilation of ASTM Standards on Soaps and Other Detergents, November, 1947.

It became evident that, if anything, the interest in metal cleaning was on the increase, and that a more systematic treatment of the information was necessary. Accordingly Mr. Harris undertook the task of consolidating the previous contributions by himself and Mr. Mears into a single group arranged chronologically and of adding to this group other additional references to bring up to date the coverage of metal cleaning for all kinds of metal and by most types of processes. This material was published in 1949 as Special Technical Publication No. 90. A supplement to this bibliography was issued in 1950 and, since that time, still further references have been collected. This new publication combines all of the references from the 1949 and 1950 editions in addition to several hundred new ones.

The material has been presented in what is believed to be the most useful manner. The references are arranged by year, and secondarily by author, or by the journal in which the article appeared if anonymous.

The references are numbered consecutively. So that references to either the original, the supplement, or the combined bibliography remain consistent, no renumbering has been done. Additional references that appeared in the 1950 supplement and fell within the dates covered by the 1949 edition have

capital letters appended to numbers to indicate their correct position, thus: 72A, 72B. Later references that have to be inserted where capital letters are already in use have been given lower case letters (for example, 72a) to indicate references prior to 72A. Abstracts preceding reference 1 are numbered 0A, 0B, and so forth.

In order to facilitate reference to the abstracts they have been thoroughly indexed in the following four ways:

Subject Index  
Author Index  
Specification Index  
Patent Index

Wherever possible the original articles have been abstracted. In a field of such size, to read and abstract each original reference is virtually impossible of accomplishment, so many articles which appear herein are re-abstracts from journals such as *Chemical Abstracts* or *Journal of the Institute of Metals*.

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<sup>2</sup>Jay C. Harris and Robert B. Mears, *ASTM Bulletin*, No. 120, January, 1943, p. 33.

<sup>3</sup>Jay C. Harris and Robert B. Mears, *ASTM Bulletin*, No. 128, May, 1944, p. 35.