

# Handbook on Finishing in gold jewellery manufacture

**NEW PUBLICATION – THE ESSENTIAL PRACTICAL BOOK ON POLISHING AND FINISHING!**

World Gold Council is pleased to announce publication of its latest technical book – the **Handbook on Finishing**. This Handbook explains the underlying technology of grinding and polishing, the finishing materials and processes and how to approach optimising the finishing process for each type of product. It is the first book to cover all the modern processes and equipments involved in the finishing of gold jewellery, with particular emphasis on polishing and the mechanised processes. As such, it is unique.

This is a comprehensive book covering all aspects of finishing of gold jewellery, whether done by traditional manual techniques or by machine. Written by an industry expert and consultant to World Gold Council, Dr Valerio Faccenda, this handbook is well illustrated in colour and covers the following topics:

- Introduction and glossary
- Polishing – the basic principles
- Preparation of jewellery for finishing
- Polishing processes
  - electrochemical, hand polishing and mechanised finishing (including equipment, media, optimised finishing cycles)
- Other processes
- Chemical finishing ('bombing')
- Electroplating
- Behaviour of gold alloys
- Safety: procedures and recommendations
- Further reading

Whilst written from the technology aspect, it is a practical book and will be an essential tool for all those seriously interested in gold jewellery manufacture and a quality finish. It covers the basic principles underlying the polishing process and the various types of polishing

machines currently available for mechanised polishing, their characteristics and advantages, and the optimum finishing cycles. It is the only Handbook focussed on the finishing of jewellery.

This Handbook is available in English and Italian from the World Gold Council office in London or from local offices. Cost is £16 sterling, including postage. For future availability in other languages, consult your local office.

*Orders to London should be sent, with payment, to Industrial Division, World Gold Council, Kings House, London SW1Y 4BP, England. [Fax: +44 171 839 6561]*

*Payment to be made in £ sterling only by money order or cheque (sorry, no credit cards) or directly into our Bank account at: Barclays Bank plc, 50 Pall Mall, London SW1, England. Bank sort code: 20 67 59, account no. 70964271.*

**Note:** A list of all WGC technical publications and order form is available from the address above.



**Erratum- “Characterisation of new yellow cadmium-free gold brazing alloys”  
by M. Dabalà, M. Magrini, and M. Poliero**

*Gold Technology, No 24, September 1998, page 6 - 9.*

There were significant errors in Youngs Moduli values published in Table 3 of this paper.  
The corrected table is given below:

**Table 3. Yield strength and Youngs modulus values of brazing alloys**

Alloy	Yield strength (Kg/mm <sup>2</sup> )	Youngs modulus (Kg/mm <sup>2</sup> )	Alloy	Yield strength (Kg/mm <sup>2</sup> )	Youngs modulus (Kg/mm <sup>2</sup> )
18 Kt-1 hardened	16	8940	14 Kt-2 hardened	21	8400
18 Kt-1 annealed	15.4	8940	14 Kt-2 annealed	17.4	8380
18 Kt-2 hardened	20	8870	14 Kt-3 hardened	22.7	8530
18 Kt-2 annealed	14.1	8870	14 Kt-3 annealed	12.5	8500
18 Kt-3 hardened	13.8	8960	9 Kt-1 annealed	21.8	8420
18 Kt-3 annealed	13.6	8940	9 Kt-2 hardened	17.3	8590
14 Kt-1 hardened	16.2	8330	9 Kt-2 annealed	16.4	8590
14 Kt-1 annealed	13.6	8320			

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