

Crucibles: Material Selection Guide

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This table is intended as a guide only. For specific applications and non-standard alloys please contact Magma Ceramics.

Alloy	Suggested Crucible
Plain Carbon / Tool Steels	Alumina or Mullite
Alloy Steels	Alumina or Chrome-Alumina
Stainless Steels	Chrome-Alumina or Alumina
Aluminium/Aluminium Alloys	Clay Graphite/Silicon Carbide* or Fused Silica
Copper/Copper Alloys	Clay Graphite/Silicon Carbide* or Fused Silica
Nickel / Cobalt-based Super Alloys	Alumina, Magnesia or Zirconia
Iron based Super Alloys	Magnesia
Maraging Steels	Magnesia / Tabular Alumina or Zirconia for optimum cleanliness
Gold	Silicon Carbide*, Fused Silica or Fireclay
Silver	Silicon Carbide* or Fireclay
Palladium	Alumina or Zirconia
Platinum/Platinum Alloys	Zirconia or Zircon
Iridium	95 Magnesia
Titanium	Water-cooled Copper* or Ytria
Silicon	Quartz*

Crucibles manufactured by Magma Ceramics are typically used in High Frequency Induction Melting furnaces and **MUST NOT** be used unsupported in drop down/pop-up-type furnaces.

NB: * - These are NOT manufactured by Magma and are listed for information only



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