

MRA Systems, LLC (MRAS) List of Special Processes

This specification is in addition to and in no way limiting, superseding, or abrogating any contractual obligation as required by the applicable procurement document.

I. Applicability

This specification applies to all suppliers of MRA Systems, LLC (MRAS) when referenced on the purchasing document, long-term agreement, or flow down specification (i.e. M1000).

II. Purpose

This specification identifies processes which are classified as special processes.

III. Procedure

Each process listed in List A or List B is considered a Special Process if the MRAS Engineering document requires the process to be performed in accordance with a standard or specification.

IV. Definitions

Special Processes: Those processes which modify or change the inherent physical, chemical, electrical or metallurgical properties of an item, or non-conventional methods which remove or deposit material on an item during or after fabrication which cannot be fully evaluated by nondestructive means, or those used to maintain process control such as nondestructive testing. These processes may require a demonstration of operator or equipment capability or proficiency and require special controls for monitoring per specification. Means for compliance are contained in individual specifications.

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QUALITY SPECIFICATION

V. Appendix

List A	List B
Annealing	Adhesive bonding
Anodizing	Aging
Brazing	Additive manufacturing
Casting	Broaching
Chemical cleaning	Ceramic raw material manufacturing
Chemical/Chromate Conversion	Chemical stripping or leaching
Coating	Composite laminate manufacturing
Coating	Composite raw material manufacturing
Coating evaluation	Edge treatment
Dry film lubrication	Electrochemical grinding
Hardening	Electrochemical machining
Heat treating	Electropolishing
Hot isostatic pressing	Etching
Material and chemical testing	Extruding
Milling (Non-Standard/Chemical)	Forging
Non-destructive Testing/Evaluation	Grinding
Radiographic inspection	Hot forming
Penetrant inspection	Hole making
Ultrasonic testing	Laser processing
Eddy current inspection	Melting
Magnetic particle inspection	Nonconventional machining
Painting	Peening
Passivation	Sealing
Plating (Electro-deposition)	Sintering
Tempering	Soldering
Vapor deposition	Thermal spraying
Welding	Titanium cleaning or removal
	Tumble surface finishing
	Turning