Anodizing & Electroplating

Welcome to Surtronics, Inc

A Brief History



- We are very proud to be a second generation family business that has provided quality plating for nearly 50 years.
- Surtronics was founded in 1965.
- In 2007, Surtronics became a solely woman owned business.

Angela Stanley CEO/President

Previous Locations





1st Location, Glenwood Avenue (Former Laundromat) 1965-1969

2nd Location, Hargett Street 1969-1973

4001 Beryl Rd, Raleigh, NC 27636

1973- Present

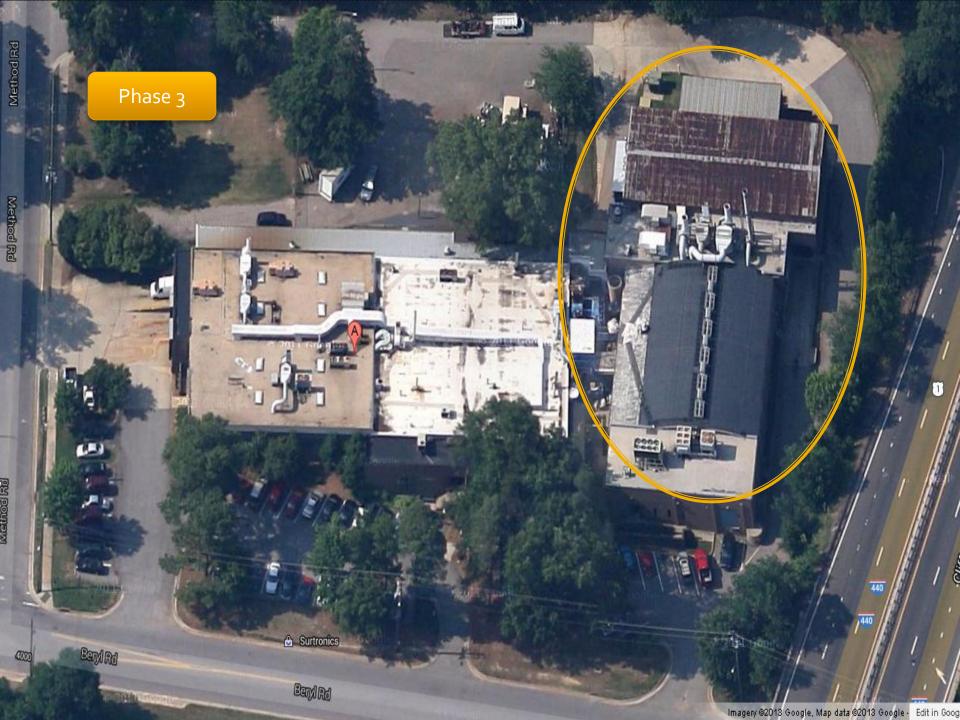






3 Areas of our Shop

40,000 square feet of production space



Phase 3: Receiving, Anodize, Passivation, Chromate

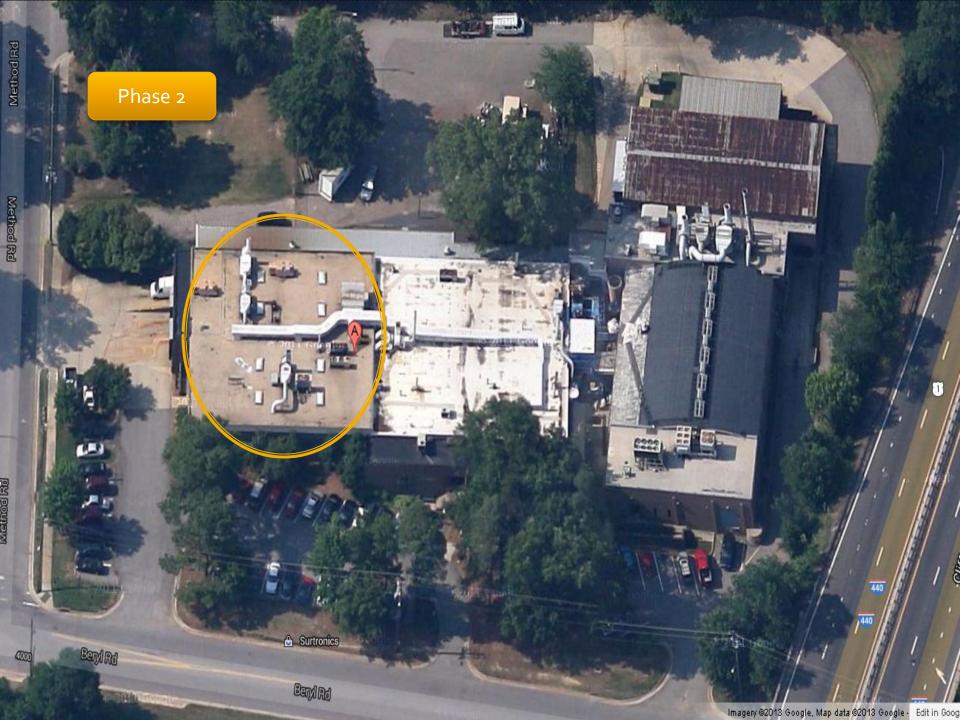




Phase 3: Receiving, Anodize, Passivation, Chromate







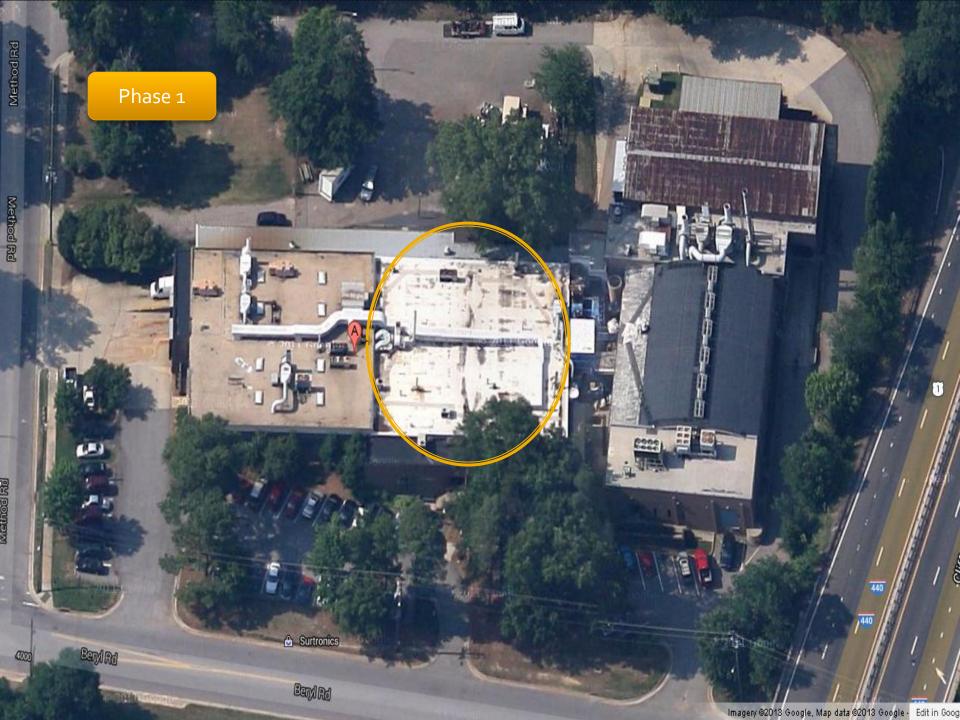
Phase 2: Silver, Gold, Chromate, Tin, Copper, Nickel, Chrome, Zinc, Electroless Nickel











Phase 1: Silver, Chromate, Tin, Copper, Nickel, Chrome, Zinc, Nickel, Cadmium



This section was damaged due to the fire on June 16^{th} , 2013

Surtronics' Valued Employees



1 Location, 43 Employees, Average Employee Tenure = 16 years

Surtronics Mission Statement:

SURTRONICS, INC.

ELECTROPLATING & ANODIZING

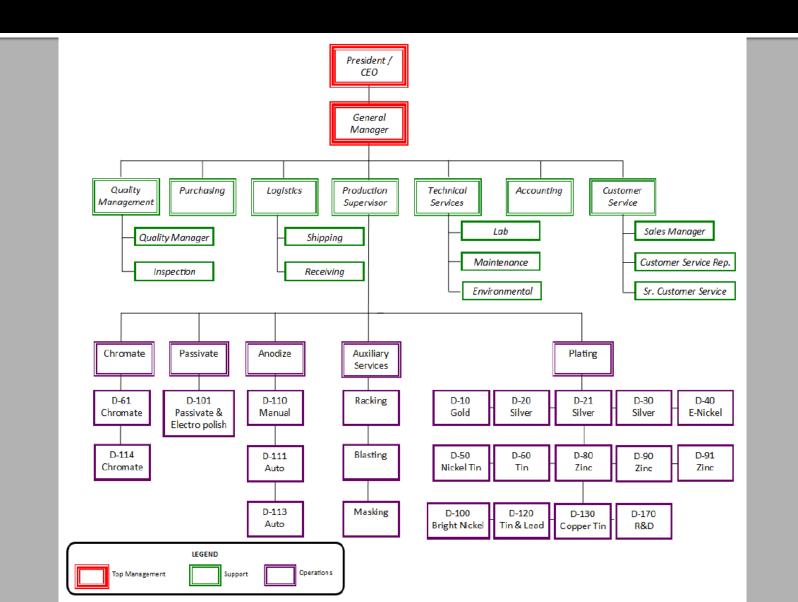


* Mission Statement *

As Valued Employees of Surtronics, We Must:

- Support our Manufacturing Customers
- Add Value to our Customers' Products in an Ecologically Responsible and Safe Way
- Stay on the Leading Edge of Technology
- Be Competitive, Efficient, and Profitable

The Organizational Chart





Receiving Dock



Receiving Clerk counting parts

- Parts are delivered to Surtronics' Receiving Bay.
- The Parts are then opened, visually inspected, and counted.
- The paperwork is taken to the front office where the job card is generated.



Job Card

JOB_NO	QNT_R EC		DATE_ RECVD		PO_NO	PARTNO	SHIPCOMP	FINISH1	FINISH2	FINISH3
706396	24,000	0	8/7	8/14	S16966/100536	120-38204/EXP-995 AU	Deringer - Ney Inc	Nickel	Gold	
706509	10,000	0	8/9	8/16	P020171-00	QT05012-012	QUALITY THERMISTOR	Nickel - Sulfamate / Dull	Tin / Lead 90 / 10	
706523	1	0	8/9	8/16	M13A1472	G846771	General Dynamics-AIS	Masking	Nickel	Gold - Soft
706523	1	0	8/9	8/16	M13A1472	G846773	General Dynamics-AIS	Masking	Nickel	Gold - Soft
706523	1	0	8/9	8/16	M13A1472	G846772	General Dynamics-AIS	Masking	Nickel	Gold - Soft
706576	85	0	8/12	8/19	5087-458177947	80-6640-2 REV A2	EATON IND. MFG GMBH	ELECTROLESS NI	Au	

- The paperwork is attached to the parts and the job is delivered to the respective department's staging area.
- The job is placed in queue. Everyday our Production Manager monitors what jobs will be plated while planning for possible expedited jobs.





Parts are rack or barrel plated.



- Depending on the size of the part the job is either racked or placed in a barrel.
- Through a series of cleaning, rinsing, and acid pickeling the parts are processed to the customer's specification.



Operator checking for plating thickness.



- Next the job will be plated according to the customer's specification.
- Upon completion of plating the parts will be inspected for any possible defects.

Quality Inspector checking for visual defects.



Operator completing a Rework
Authorization Form

Surtronics, Inc.	5.1.5 Form F-05: Internal Rework Authorization (REV 3; 02/07/11 MDB)	Quality Procedure Manual
Form F-05: Inte	rnal Rework Authorization	1 Form
Date:		
Department:		
Job Number:		
Process Type:		
Quantity Reworked:		
All []	Partial []	
Reason for Rework:		
Authorization:		

- If the parts do not meet our plating standards the part will be reworked according to procedures set forth in Surtronics Quality Management System.
- A Rework Authorization Form will then be completed and attached to the paperwork



Certificate of Compliance



Parts are packaged in the manner in which received.

- Once the parts pass inspection the job will be delivered to Shipping.
- At this time a Certificate of Compliance is generated and included in the shipment.

- Jobs are shipped out of the shipping dock, via the customer's preferred carrier.
- Invoices are generated when parts are shipped.



Industries Served

We are proud to serve 75 major and numerous smaller customers in the following industries:

- Aerospace Kidde Aerospace (Sunstrand), AAR Cargo Systems (Boeing, Airbus),
 BE Aerospace, Honda, Spirit, Dill Air, TW Metals
- Defense US Army, Coast Guard, ITT Night Vision, Wakefield/Simon (Curtis Wright), Mecca,
 Ruhl Tech, HiTech, Sirchie, General Dynamics
- Pharmaceutical Alyward, Accurate Machine (Parata)
- Medical Teleflex, TransEnterix, Triangle Biomedic, Tear Science
- R&D Duke, NC State University, Univ. of North Carolina
- Power and Energy Nuclear, ABB, Siemens, GE, Reinhausen, Quality Switch, Sunbelt
- Telecommunications and Electronics Eaton, Tyco, Corning, Electro Switch, Shallco
- Automotive Nissan, Toyota, Hyundai, Honda, NASCAR, After Market Accessories
- Commercial/Industrial John Deere, Flowserve, Ingersol Rand, Schindler, Moog, Moen
- Outdoor Recreation Truball, Major Machine, Honda Marine

We meet all customer, military, automotive, & ASTM specifications.

- Anodizing
 - 12' Automated, 6' Automated
 - Type I Chromic
 - Type II Conventional
 - Type III Hard Coat
 - Bright Dip
 - 8 Organic Dyes
- Busbar/Tin
 - 12' Line
 - Bright/Dull
 - Rack/Barrel





- Chromate Conversion
 - 12' Line
- Acid Copper
 - Large Capacity
 - High speed heavy build
- Cyanide Copper
 - 6 lines
 - Rack/Barrel
- Cupric Oxide
- Electroless Nickel
 - 1 Line
 - Mid PHOS





- Electro Polish
- Passivation
 - QQ-P-35C
 - Type II, VI, VII
- Gold
 - Cobalt Hard
 - Soft
- Nickel
 - 4 lines
 - Barrel/ Rack
 - Bright and Dull Sulfamate
- Cyanide Silver
 - 2 lines Barrel
 - 1 line Rack





- Tin and Tin/Lead
 - 90/10
 - 60/40
- Chloride Zinc
 Small Barrel/Large Barrel
 Auto Rack/Manual Rack
 - Black, Olive Drab, Yellow, ROHS
 Clear, ROHS Yellow
- Other Processes
 - Bead Blasting
 - Embrittlement Relief





Finish Specification Cross Reference Chart

Common Name Mill-or-QQ	Specification Cross Reference Chart										
Anodize, Chromic dyed Anodize, Chromic dyed Anodize, Sulfuric, non-dyed MIL-A-8625 Type II, Class 2 AMS-2407 ASTM-B-580 Type B Thru F 7.2.1 E511, Type II ASTM-B-580 Type B Thru F 7.2.2 E511, Type II ANDESCRIPPORT F RESULT RESUL	Common Name	MIL-or-QQ	AMS	ASTM			Other				
Anodize, Sulfuric, non-dyed MILA-8625 Type II, Class I AMS - 2471 ASTM-B-580 Type B Thru F 7.2.1 E511, Type II Anodize Sulfuric, dyed MILA-8625 Type II, Class 2 AMS - 2472 ASTM-B-580 Type B Thru F 7.2.2 E511, Type II AMS - 2485 AMS - 2400 AMS	Anodize,Chromic non-dyed	MIL-A-8625 Type I Class I Type IB		ASTM-B-580 Type G	7.1.1; 7.1.3	E511, Type I					
Amodize Sulfuric, dyed MIL-A-8625 Type II, Class 2 AMS-2472 ASTM-B-580 Type B Thru F 7.2.2 E511, Type II	Anodize,Chromic dyed	MIL-A-8625 Type I or IB, Class 2		ASTM-B-580 Type G	7.1.2	E522, Type I					
Black Oxide	Anodize, Sulfuric, non-dyed	MIL-A-8625 Type II, Class I	AMS - 2471	ASTM-B-580 Type B Thru F	7.2.1	E511, Type II					
Cardmium	Anodize Sulfuric, dyed	MIL-A-8625 Type II, Class 2	AMS-2472	ASTM-B-580 Type B Thru F	7.2.2	E511, Type II					
Chromium QQ-c320	Black Oxide	MIL-C-13924	AMS-2485			•					
Chromate	Cadmium	QQ-P-416	AMS-2400								
Copper	Chromium	QQ-C-320	AMS-2406 Hard	ASTM-B-456							
Electropelsh Mil-C-26074 (cancelled, but still used-See AMS & ASTM) ASTM-B-733, ASTM-B-656 I.4.3 Thru 1.4.3.4 M265, Grade A; M357, Grade B M18 & ASTM) ASTM-B-254 M18 23483 M18 2348	Chromate	MIL-C-5541 Class IA	AMS-2473, AMS-2474	ASTM-B-449	7.3.1	E513					
Electropolish	Copper	MIL-C-14550	AMS-2418	ASTM-B-734, ASTM-B-281							
Brush Plating Rockwell 580-0143	Electroless Nickel		AMS-2404, AMS-2405	ASTM-B-733, ASTM-B-656	l.4.3 Thru 1.4.3.4	•	· ·				
Hardcoat, non-Dyed Mill-A-8625 Type III, Class 1 AMS-248, AMS-2469 ASTM-B-580 Type A 7.5.1 E514 Hardcoat, Dyed Mill-A-8625 Type III, Class 2 AMS-2468, AMS-2469 ASTM-B-580 Type A 7.5.2 E514 Hardcoat/Teflon Mill-A-8625 Type III, Class 2 AMS-2482 ASTM-B-580 Type A 7.5.2 E514 Hardcoat/Teflon Mill-A-8625, Type III, Class 2 with Teflon Mill-A-63576, Type I AMS-2482 ASTM-B-580 Type A 7.5.2 E514 Nickel, Bright QQ-N-290 AMS-2403 ASTM-B-689 AMS-2403 ASTM-B-689 AMS-2403, AMS-2424 ASTM-B-689 Passivate Mill-STD-753 QQ-P-35, Types III:VI:VIIII AMS-2403, AMS-2424 ASTM-B-689 ASTM-B-689 AMS-2403, AMS-2410, AMS-2411, AMS-2411, AMS-2411, AMS-2411, AMS-2412 ASTM-B-700 AMS-2410, AMS-2411, AMS-2412 ASTM-B-700 AMS-2408 ASTM-B-545 Rockwell 580-0055 Rockwell 580-0151 Rockwell 580-0151 Rockwell 580-0225 Tin, Dull Mill-T-10727 AMS-2408 ASTM-B-545 Rockwell 580-0225 AMS-2408 ASTM-B-533 ASTM-B-533 AMS-2402 ASTM-B-253 AMS-2402 ASTM-B-253 AMS-2402 ASTM-B-253 AMS-2402 ASTM-B-253 ASTM-B-253 AMS-2408 ASTM-B-25	Electropolish			ASTM-B-254							
Hardcoat, Dyed MIL-A-8625 Type III, Class 2 ASTM-B-580 Type A 7.5.2 E514 Hardcoat/Teflon MIL-A-8625, Type III, Class 1 or Class 2 with Teflon MIL-A-63576, Type I AMS-2482 SM-B-657374 Nickel, Bright QQ-N-290 AMS-2403 ASTM-B-689 SM-B-689 ASTM-B-689 ASTM-B-689 SM-B-2418 QQ-N-290 AMS-2403, AMS-2424 ASTM-B-689 AST	Gold	MIL-G-45204	AMS-2422, AMS-2425	ASTM-B-488	MIL-STD-865		_				
Hardcoat, Dyed MIL-A-8625 Type III, Class 2 ASTM-B-580 Type A 7.5.2 E514 Hardcoat/Teflon MIL-A-8625, Type III, Class 1 or Class 2 with Teflon MIL-A-63576, Type I AMS-2482 SM-B-657374 Nickel, Bright QQ-N-290 AMS-2403 ASTM-B-689 SM-B-689 ASTM-B-689 ASTM-B-689 SM-B-2418 QQ-N-290 AMS-2403, AMS-2424 ASTM-B-689 AST	Hardcoat, non-Dyed	MIL-A-8625 Type III, Class I	AMS-2468, AMS-2469	ASTM-B-580 Type A	7.5.1	E514					
Nickel, Bright QQ-N-290 AMS-2403 ASTM-B-689 Nickel, Sulfamate MIL-P-27418 QQ-N-290 AMS-2403 ASTM-B-689 ASTM-B-689 Nickel, Sulfamate MIL-P-27418 QQ-N-290 AMS-2403, AMS-2424 ASTM-B-689 ASTM-B-697, ASTM-B-449 ASTM-B-697, ASTM-B-449 ASTM-B-697, ASTM-B-449 ASTM-B-697, ASTM-B-697 ASTM-B-697, ASTM-B-697 ASTM-B-545 Rockwell 580-0605 Rockwell 580-0605 Rockwell 580-0605 Rockwell 580-0225 ASTM-B-633 ASTM-B-633 ASTM-B-633 ASTM-B-633 ASTM-B-633 ASTM-B-633 ASTM-B-633 ASTM-B-633 ASTM-B-253 ASTM-B-253 ASTM-B-253 ASTM-B-253 ASTM-B-177 A				ASTM-B-580 Type A	7.5.2	E514					
Nickel, Sulfamate MilL-P-27418 QQ-N-290 AMS-2403, AMS-2424 ASTM-B-689 ASTM A380 Codes F Thru M; ASTM-A-967, ASTM-B-689 MilL-STD-753 QQ-P-35, Types II:VI:VIII AMS-2410, AMS-2411, AMS-2412 ASTM-B-697, ASTM-B-449 5.4.1 E300 MilS-13219 MilS-20134C	Hardcoat/Teflon		AMS-2482				SM-B-657374				
Passivate MIL-STD-753 QQ-P-35, Types II:VI:VIII ASTM-A380 Codes F Thru M; ASTM-A-967, ASTM-B-449 5.4.1 E300 MIS-13219 MIS-20134C	Nickel, Bright	QQ-N-290	AMS-2403	ASTM-B-689							
Silver QQ-S-365 AMS-2410 , AMS-2411 , AMS-2412 ASTM-B-700 Silver QQ-S-365 AMS-2410 , AMS-2411 , AMS-2412 ASTM-B-700 Silver QQ-S-365 AMS-2410 , AMS-2408 ASTM-B-545 Rockwell 580-0605 Rockwell 580-0605 Rockwell 580-0605 Rockwell 580-0151 Rockwell 580-0225	Nickel, Sulfamate	MIL-P-27418 QQ-N-290	AMS-2403, AMS-2424	ASTM-B-689							
Silver QQ-S-365 2412 ASTM-B-700	Passivate	MIL-STD-753 QQ-P-35, Types II:VI:VIII		•	5.4.1	E300					
Tin, Dull MIL-T-10727 AMS-2408 ASTM-B-545 Rockwell 580-0151 Rockwell 580-0151 Rockwell 580-0151 Rockwell 580-0225 Tin, Lead Alloy (90/100) MIL-P-81728 AMS-2402 ASTM-B-633 ASTM-B-253 Zincate Other Specially Engineered Finishes & Services Salt Spray ASTM-B-117 ISO 9001:2008 AS9100C	Silver	QQ-S-365	·	ASTM-B-700							
Tin, Dull MIL-T-10727 AMS-2408 ASTM-B-545 Rockwell 580-0225 Tin, Lead Alloy (90/100) MIL-P-81728 AMS-2402 ASTM-B-633 Zinc AMS-2402 ASTM-B-633 Zincate Other Specially Engineered Finishes & Services Salt Spray ASTM-B-117 Quality System ISO 9001:2008 AS9100C	Tin, Bright	MIL-T-10727	AMS-2408	ASTM-B-545			Rockwell 580-0605				
Zinc AMS-2402 ASTM-B-633 ASTM-B-633 Zincate ASTM-B-253 ASTM-B-253 Other Specially Engineered Finishes & Services Salt Spray ASTM-B-117 ISO 9001:2008	Tin, Dull	MIL-T-10727	AMS-2408	ASTM-B-545							
Zincate ASTM-B-253 Other Specially Engineered Finishes & Services Salt Spray ASTM-B-117 ISO 9001:2008 AS9100C	Tin, Lead Alloy (90/100)	MIL-P-81728									
Salt Spray ASTM-B-117 ISO 9001:2008 AS9100C			AMS-2402	ASTM-B-633							
Salt Spray ASTM-B-117 Quality System ISO 9001:2008 AS9100C	Zincate			ASTM-B-253							
Quality System ISO 9001:2008 AS9100C	Other Specially Engineered Finishes & Services										
Quality System AS9100C	Salt Spray			ASTM-B-117							
X-Ray ASTM-B-568	Quality System										
	X-Ray			ASTM-B-568							

Core Competencies

- Quality
- Custom Certifications
- Quick Turnaround
- Precious Metals Au/Ag
- Tin/Tin Alloys
- Anodizing
- Custom Masking
- Added Value



In house, State Certified Testing Lab



Salt Spray Cabinet - On Order



ICP Mass Spectrometer



Surtronics Inc's Water Quality Certificate



(3) Fischer X-ray XDL-B-XYZPT8 System S

Quality Certifications

- AS 9100C
- ISO 9001: 2008
- **ITAR**



AS 9100 C / ISO 9001:2008 CERTIFICATE OF REGISTRATION

This is to certify that

Surtronics, Inc.

4001 Beryl Rd. Raleigh, NC, 27606 USA

having been audited in accordance with the requirements of AS 9104/1 dated 2012-01, has successfully been assessed and found to conform with the AS 9100 C and ISO 9001:2008 quality management system standards.

The scope of this registration includes:

Provision of metal finishing

Date of Registration: May 17, 2013 Date of Expiration: May 16, 2016 Date issued/revised: April 15, 2014

(Registered Since: May 17, 2013)

Certificate No. Certification Structure: Single Site

Steve Barfoot, President Advantage International Registrar, Inc.

1320 Woodmanor Drive, Raleigh, North Carolina 27614 USA (Form No. Al 007 AS0100-07, www.advantageregistrar.com, Tele: (010) 840-685.

Advantage International Registrar, Inc.is accredited under the (ICOP) Industry Controlled Other Party (Americas) scheme.

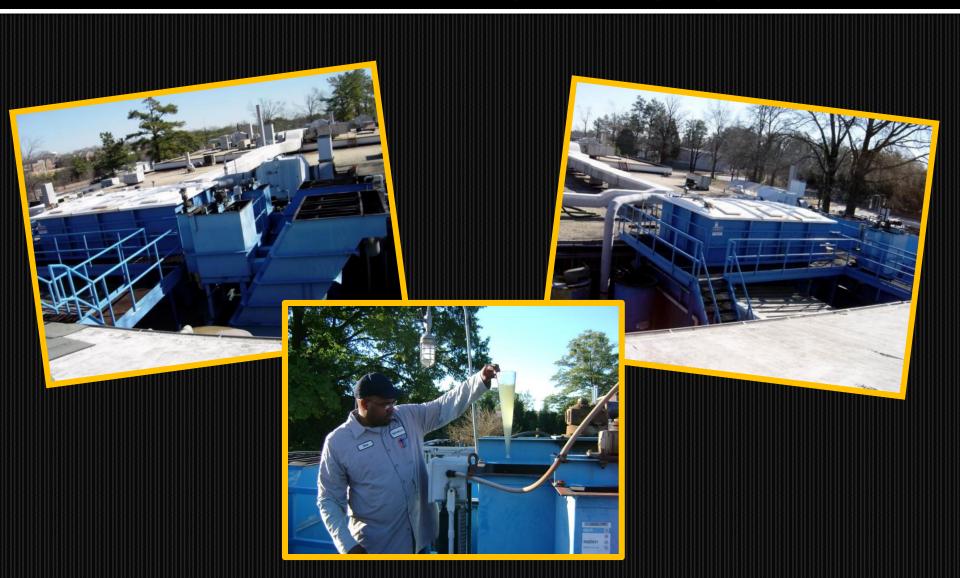




Flexible processing equipment to match your job.



We have an extensive Waste Treatment Department that exceeds governing regulations.



Cost Reduction Opportunities

- We do not have setup fees
- We do not charge for certifications

Visit Us on...





- The Web at www.surtronics.com
- Like us on



Add us to your network



You Start It and We'll Finish It! Right and On Time When you partner with Surtronics You will have the Advantage of:

- Service to your Specifications
- The economy of a single source for all your finishing needs.
- Quality from beginning to end, the first time.
- ✓ World class customer support.