



NSF automotive certification



April 25, 2017

Part Types NSF Certifies



How Parts Earn Certification



Manufacturing Facility Audit

- Must be ISO 9001 certified
- On-site initial facility audit
- Ongoing quality audits



Product Testing

- Form: Dimensional, visually examined
- Fit: Vehicle Test Fitted
- Function: Part Performance characteristics
- Lighting: FMVSS 108 Photometrics
- Manufacturing: Process checks, Quality systems

How Parts Earn Certification (cont.)



Certification Review:

- Test results submitted
- Aftermarket part compared with OE part
- Independent certification decision made

Part Certified:

- Publicly listed [online](https://www.nsf.org/certified-products-systems) at nsf.org/certified-products-systems
- Added to NSF data reports (CCC, Mitchell, etc.)
- NSF certified parts come with a limited lifetime warranty

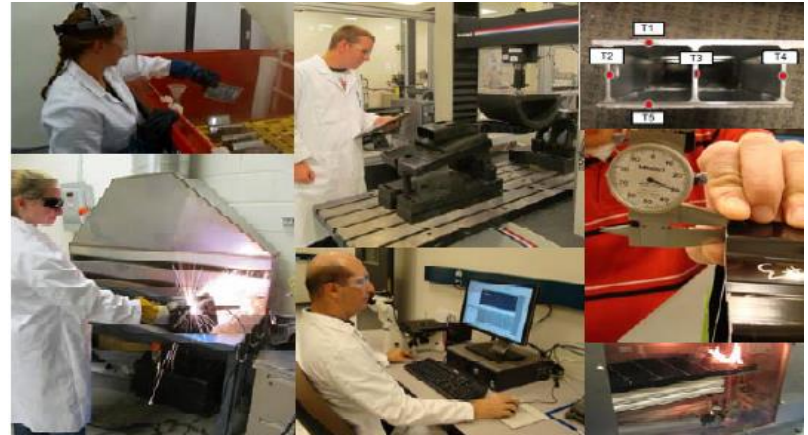
Market Surveillance:

- In-market testing
- On-going facility audits
- Random lot testing
- Return rate monitoring
- Complaint investigation

Ensuring OE Equivalency

Test examples include:

- Weight
- Dimensional conformance
- Material thickness
- Material strength, tensile & yield
- Coating thickness
- Coating adhesion
- Corrosion resistance
- Weld strength
- Flammability
- Density
- Quasi static pole test
- FMVSS requirements
- Vehicle Test Fit & appearance



OE service part is the standard.

In Market Testing

- Randomly selected parts are tested against NSF certification requirements
 - Parts from each approved facility of each part type are purchased by NSF from distributors
 - Testing is conducted by NSF
 - Test results are compared to both the original OE data set as well as the original aftermarket part data set

Traceability

- Parts must be traceable to raw material lot, date of manufacture, engineering design records, and in-process QC records
- Parts must be marked with manufacturer's logo or name, part number, bar code and lot number.
- Records maintained throughout the product life

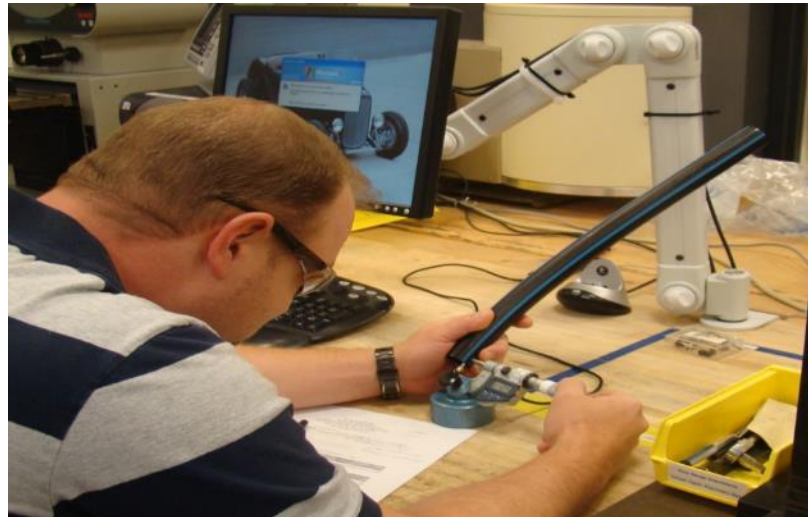


Complaint Tracking

- Complaint contact information on each part
- Complaint information is linked to both NSF and the manufacturer
- Manufacturer is required to investigate each complaint with the end user

Additional Program Policies

- No dual part production for bumper system components
- Lifetime warranty on all parts



Manufacturing Facility Requirements

- ISO / IATF Accreditation
- Facility Approval Audit
- Quarterly Product Audits
- In process QC Requirements

