



## When Safety is Critical Innovation Counts

**FM Approved Welding Curtains,  
Blankets & Pads for Hot Work  
Protection in Compliance with  
NFPA 51B 2014 Edition**

## Requirements for Third-Party Certification

In order for welding curtains, blankets and pads to meet ANSI/FM 4950 they must undergo and pass stringent third-party testing, certification and ongoing audit procedures and meet the conditions for safety, performance and quality. In addition, manufacturers must maintain a quality control program and submit to manufacturing facility inspections as part of the Approval process.

*Safety professionals in critical industries such as shipbuilding, nuclear power generation, petroleum and steelmaking know that unprotected hot work is a leading cause of industrial fires. The proper use of hot work fabrics is an essential part of good safety management practices.*

## Leadership and Products Trusted Worldwide

Auburn Manufacturing Inc. (AMI) is the leading industry producer of FM Approved welding curtains, blankets and pads to protect people, plants, and equipment from heat, sparks, and molten metal in the workplace.

Once a mundane item, hot work fabrics are now considered a critical safety item. Disastrous fires and property losses due to the lack of testing requirements has led to a demand for fabrics that are certified for safe use in hot work applications. Industry standards have been updated to ensure the proper use and specification of these fabrics — an essential part of good safety management practices.

**The NFPA 51B 2014 Standard** — the one most often cited by both government agencies (OSHA, DOE) and private industry groups (API, AWS) for fire protection — now requires that welding curtains, blankets and pads be “Listed or Approved” (third-party certified) to ANSI/FM 4950. ANSI/FM 4950 is a new standard that tests and rates fabrics based on severity of use.

AMI was the first company in the world to have its most commonly used hot work fabrics tested and approved by FM Approvals\* and has maintained Approval status since 2004. Today, AMI continues to lead the way by offering the largest selection of U.S. made hot work fabrics for any kind of horizontal or vertical hot work procedure including welding, grinding, chipping, heat-treating or sand blasting. We export our products worldwide through an ever-growing network of distributors.

\* FM Approvals is part of FM Global, one of the industry's most trusted resources for third-party certification and insurance-driven loss prevention product standards.





# FM Approved Welding Curtains, Blankets & Pads Tested and Rated on Performance – Not Temperature

The ANSI/FM 4950 Standard rates fabrics based on severity of use rather than just temperature. This enables safety professionals to quickly and accurately determine which level of fire protection is needed for a specific hot work operation.

## Look for the Label

The FM Approvals mark on the label or fire blanket is assurance that the fabrics meet the highest internationally accepted standards for quality, safety and performance.



## Rating Printed on AMI Fabrics

In addition to package labeling, AMI goes a step further by printing FM Approved and the performance rating on its hot work fabrics. Such printing assures that the right product is being used on the job site once the outside label is removed.



## Fabric Ratings



### Welding Pads

Intended for use in HORIZONTAL applications with SEVERE exposures such as that resulting from molten substances or heavy horizontal welding. Designed to prevent the ignition of combustibles that are located adjacent to the underside of the pad.



### Welding Blankets

Intended for use in HORIZONTAL applications with LIGHT to MODERATE exposures to sparks, heat and molten metal slag. They are designated to protect machinery and prevent ignition of combustibles located in the designated work area.



### Welding Curtains

Intended for use in VERTICAL applications with LIGHT to MODERATE exposures. They are designed to prevent sparks and heat from escaping the designated work area.


- Chipping
- Heat-treating,
- Light horizontal welding
- Grinding
- Sand blasting



# AMI FM Approved Fabric Product Guide

To make it easier to choose the right FM Approved fabric for a specific hot work operation, AMI has rated the fabrics as GOOD, BETTER and BEST. The rating determines the level of protection offered by the fabrics.

The ratings take into account a number of factors such as durability, weatherization and thermal performance. Rating determination is based on distance from hot work, amount of mechanical abuse, level of exposure to sparks and slag, location of the fabric, moisture concerns, elements such as wind and UV if application is outdoors, how much of the fabric will be exposed, and is workspace open or confined.

Fabric Rating		 Category	Product Code	Nominal Weight		Thickness		Product Type
				Oz/Yd <sup>2</sup>	G/M <sup>2</sup>	in	mm	
GOOD	1	Curtain	CAS1200	12	400	.028	0.71	AMI-SIL®
	1	Curtain	AS1800F	18	600	.030	0.76	AMI-SIL®
	1	Curtain	AS1800G	18	600	.026	0.66	AMI-SIL®
	2	Curtain	GL1300BLACK	13	440	.016	0.41	AMI-GLAS®
	2	Curtain	GL2025-9383	18	600	.036	0.91	AMI-GLAS®
	2	Curtain	GL2401COLORS	24	800	.055	1.39	AMI-GLAS®
	2	Curtain	GLV3201 TP	32	907	.070	1.39	VEXTRA®
	2	Curtain	GLV3500 TP	35	992	.080	2.03	VEXTRA®
	3	Curtain	SGL1400	14	475	.013	0.33	AMI-TUF®
BETTER	4	Curtain	AS2400	24	800	.040	1.02	AMI-SIL®
	5	Curtain	SGL1700	17	575	.016	0.41	AMI-TUF®
	5	Curtain	SGL3200	32	1085	.035	0.89	AMI-TUF®
	6	Curtain	GLN2025	21	700	.030	0.76	GOLDENGLAS®
	6	Curtain	GLN2401	26	880	.055	1.39	GOLDENGLAS®
	6	Curtain	SGLP3100	31	880	.037	1.39	AMI-TUF®
BEST	7	Pad	PGL2000	20	675	.150	3.80	CARBO-GLAS®
	8	Pad	AS3600	36	1220	.054	1.37	AMI-SIL®
	8	Pad	CAS4000	40	1350	.090	2.28	AMI-SIL®
	9	Blanket	SAS2400-1	29	980	.047	1.19	AMI-SIL®
	9	Pad	SGLP14 Composite	54	1530	.025	.635	AMI-GUARD®
	10	Pad	SGLV6000-1	75	2540	.115	2.92	VEXTRA®

**CAUTION:** All fabrics are potentially subject to burn-through. To be effective, fabrics used for welding protection purposes must be utilized as part of a fire prevention system. They should always be employed in accordance with the procedures set forth in NFPA 51B Hot Work Standard or other applicable standards.

## Military & Government

- **MIL-C-20079H** — Glass Cloth for thermal insulation components
- **MIL-C-24576A** — Cloth, Silica Glass for welding and cutting operations
- **MIL-DTL-24244 (SH)** — Insulation Material with Special Corrosion, Chloride and Fluoride Requirements
- **USCG164.009** — Test for Incombustibility
- **NRC 1.36** — Nuclear Regulatory Commission Standard
- **US DOE Safety Rule 10 CFR 851** — Worker Safety and Health Program (for DOE and National Nuclear Security Administration)
- **US DOL 1910.252** — OSHA Standard on Welding, Cutting and Brazing

## Industry

- **ANSI/FM 4950** — Standard for Evaluating Welding Pads, Blankets and Curtains for Hot Work Operations
- **NFPA 51B, 2014 Edition** — Standard for Fire Prevention During Welding, Cutting and Other Hot Work
- California Code of Regulations, Title 8, Section 4848 Fire Prevention and Suppression Procedures
- **ANSI Z49.1** — Safety in Welding, Cutting and Allied Processes
- **API 2009** — Safe Welding, Cutting and Hot Work Practices in the Petroleum and Petrochemical Industries

## Levels of Protection

### "GOOD"

Fabrics rated as **"GOOD"** fall under the ANSI/FM 4950 Approved category of "Welding Curtains" — intended for use in vertical applications with light to moderate exposures to sparks and heat.

### "BETTER"

Fabrics rated as **"BETTER"** also fall under the FM Approved category of "Welding Curtains" as above, but also exhibit enhanced durability and weatherization capabilities due to added coatings and/or fabric thickness.

### "BEST"

Fabrics rated as **"BEST"** fall under the ANSI/FM 4950 Approved category of "Welding Pads" and "Welding Blankets". Welding Blankets are intended for HORIZONTAL applications with light to moderate exposures to sparks, heat and molten metal slag. Welding Pads are intended for use in HORIZONTAL applications with severe exposures to molten substances or heavy horizontal welding.



The rules have changed! Scan the QR code for a short fact-based video on the hot work fabric requirements for NFPA 51B compliance. Find out what the FM Approval for hot work protection means, how to identify FM Approved welding curtains, blankets



## Manufacturing Leads to Innovation

For over thirty years, innovation has been a hallmark of AMI. Advances in our manufacturing technologies have presented numerous innovative opportunities to make an even better product. Aligning our core capabilities with these evolving opportunities has made us the industry leader in innovation, safety, performance and quality.

While other companies have followed our lead in getting their products third-party tested, none have as many choices as we do to meet any application.

### Customer Support

As the industry leader we are committed to providing the latest technical and educational information on industry standards. It's an insight and support that our customers appreciate.

### On-Site Test Equipment

Our on-site laboratory has its own test equipment for Fire and Thermal, and Paper Ignition Test portions of ANSI/FM 4950. It is used to test new fabrics as well as untested fabrics submitted by customers.



### What Experience Has Taught Us

- Performance-based testing replicates real world work situations
- Using temperature resistance as the only performance criteria alone is risky
- Selection of hot work fabrics should match the application, such as for outdoor use, not for enclosed spaces, for vertical or horizontal use, grinding vs. molten materials, etc.
- Auditing by third-party certifiers reduces risk throughout the entire supply chain: end-user, contractor, distributor and manufacturer.



*FM Approvals is part of FM Global, one of the industry's most trusted resources for third-party certification and insurance-driven loss prevention product standards.*

## California Adopts NFPA 51B 2014 Requiring Certified Welding Pads, Blankets and Curtains

The use of Listed and/or FM Approved (third-party certified) welding curtains, blankets and pads is now a requirement throughout the State of California, according to a recent report from FM Approvals. The report states "the State of California updated its fire prevention and suppression procedures and methods requirements to incorporate the 2009 edition of NFPA 51B, Standard for Fire Prevention During Welding, Cutting and Other Hot Work." The adoption of NFPA in California means that trained knowledgeable jurisdictional inspectors in the state will be looking for FM Approved welding materials to be used during hot work operations at locations in their jurisdiction.

**AMI is a Proud and Active Member in the Following Organizations:**



## Auburn's Fabrics are Certified to the Core

AMI prominently labels their products down to the core. You will always get certified products that meet military, NRC and industry standards.



### The Core:

AMI applies a FM Approval and performance rating label on the inner cardboard core of every roll of hot work fabric making it easy to identify and pull the right product from your inventory.



### The Package:

All AMI's certified products have the FM Approval marking clearly labeled on the exterior product packaging.



### The Product:

The FM Approval certification and performance category is also printed directly on all AMI hot work fabrics to assure the right product is being used on the jobsite once the packaging is removed.



**AMI is a U.S. Manufacturer. We are not just an importer. All of our hot work textiles are independently certified and manufactured in the U.S. Ask for a Country of Origin Certificate every time you order welding curtains, blankets and pads.**

**AMI Auburn Manufacturing, Inc.**  
The Safest Name in Extreme Temperature Textiles™

**COUNTRY OF ORIGIN CERTIFICATE**

In accordance with the applicable laws and regulations of the United States Federal Trade Commission and US Customs and Border Protection, Auburn Manufacturing, Inc. hereby certifies that this product listed below is 1) Made in the USA and 2) complies with the Berry Amendment to the Buy American Act.

Insert AMI Product Name Here \_\_\_\_\_

Date \_\_\_\_\_ Authorized Signature \_\_\_\_\_

\_\_\_\_\_  
Name



WELD-SAF 01/15