



BARRWELD™

TECHNOLOGY INTRODUCTION

BARRWELD™ is a high performance fabric that is tightly woven to create a smooth surface engineered to shed weld spatter and resist pin holes. This fabric offers excellent FR protection and better cut protection over its lifespan. This performance is achieved using a blend of **Lenzing FR®** Rayon and **Twaron®** aramid fibers thus creating a yarn that has superior heat and cut protection! These attributes are inherent properties of the yarn which cannot be laundered out.

Barr Weld is superior to leather which hardens over time when exposed to heat. It is light weight at 8.5 oz per square yard and has excellent comfort level for the user.

The higher visibility lime yellow fabric is an effective visual aid for collision protection in heavy industrial environments.

PRODUCT INFORMATION

40% Twaron®/ 60% Lenzing FR™ Rayon Blend	BARRWELD™
Weight (+/- 5.0 %) and Weave	8.5 oz (sq. yd) Twill
Thickness (inch.)	0.02 - 0.026
Thermal Protective Performance (cal/cm2) NFPA 1971 (with spacer)	14
Thermal Protective Performance (cal/cm2) NFPA 1971 (with spacer) – after 5 cycles of washing	16
Cut Resistance EN388 CPPT ASTM 1790-05 (g)	1 365
Tensile Strength (lbs [w x f]) ASTM 1424 (min.)	298 x 160
Vertical Flammability Char length (inches [w x f]) ASTM 6413-99 After Flame (seconds [w x f])	0.7 x 0.6 0.0 x 0.0
Color Availability	Lime Green Wine
Washing Colorfastness 140°F Industrial Wash, 160°F Max Stack Dry [25x]	4

Laundering Guidelines

General Guidelines

- Launder separately from Non-flame Resistant Garments. Lint from these garments may affect Flame Resistance.
- Do not use any bleaching or oxidizing ingredients or any fabric softeners.
- Garments can be pre-treated and washed in warm water between 40° and 60°C (104-140 °F) with mild detergents.
- Do not over dry to minimize shrinkage.
- Dry cleaning is effective for highly oiled or greased garments.

Home Laundry

- Permanent press or cotton cycle with cold or warm water.
- Use detergent only such as Cheer or Tide. Do not use soap as they may leave deposits on the fabric affecting Flame Resistance properties.
- Tumble dry. Permanent press for best appearance.
- Do not over dry to minimize shrinkage.

Industrial Cleaning

- Wash temperature should not exceed 140°F.
- Recommend to use high surfactant, low alkalinity detergent.
- Wash bath pH should not exceed 10.
- Minimize soil redeposition.
- Recommend final rinse temperature of 85-95°F and pH at or slightly above 7.
- Temperature step downs between baths should not exceed 15°F.
- Recommend tunnel drying for smoother garments and to extend longer wear. Garment temperature should not exceed 280°F.
- Tumble dryer basket temperature should not exceed 200°F with stack temperature of 130-160°F.

Dry Cleaning

- Use clean perchlorethylene.
- Ensure that the solvent is completely evaporated.
- Redeposition must be avoided.