

# ROUGH HANDLER CUT 5 FR

PR-615



## FEATURES

- + Flexible tough FR cow hide for hot works and durability
- + Cut Level 5
- + Reinforced FR cowhide reinforcement between thumb and forefinger
- + Nomex Blend on back of hand for hot works
- + FR knuckle and finger impact protection
- + Foam padding on palm area
- + Kevlar stitching

## CUT RESISTANT AREA



## PERFORMANCE STANDARDS

EN 388



4543

EN 407



413XXX

**CUT LEVEL 5  
FLAME RESISTANT**

**PATENT PENDING**

**Product disclaimer:** Gloves that provide cut resistance are not cut-proof. The risk for these sorts of injuries will not be completely eliminated or prevented by the use of gloves. Cut resistant gloves are not intended to provide protection against powered rotated blades or equipment, serrated or other sharp or rotating equipment. Gloves that provide flame resistance (FR) are not fire or flame-proof. The risk for these sorts of injuries will not be completely eliminated or prevented by the use of gloves. Flame resistant gloves have materials that are either inherently FR or else have been treated with FR materials. It is the responsibility of companies and/ or glove users to perform their own testing to determine the suitability for a particular application or use within the environment the gloves are to be used. Safety Mate Pty Ltd may revise this information as new information, knowledge or experience becomes available.

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## INTERNATIONAL CERTIFICATIONS ACHIEVED BY MANUFACTURER



### EXPLANATION OF EN407 TESTS AND PERFORMANCE LEVELS



a b c d e f

- a. Resistance to flammability (performance level 0 - 4)
- b. Contact heat resistance (performance level 0 - 4)
- c. Convective heat resistance (performance level 0 - 4)
- d. Radiant heat resistance (performance level 0 - 4)
- e. Resistance to small splashes of molten metal (performance level 0 - 4)
- f. Resistance to large splashes of molten metal (performance level 0 - 4)

The higher the performance level, the better the protection. "X" indicates the test was not performed

The nature and degree of protection is shown by a pictogram followed by a series of six performance levels, relating to specific protective qualities. The higher the number, the better the test result. "X" indicates the test was not performed. The following is tested:

#### a Resistance to flammability

The glove's material (palm) is stretched and lit with a gas flame. The flame is held against the material for 15 seconds. After the gas flame is distinguished, the length of time is measured for how long the material either glows or burns.

#### b Resistance to contact heat

The glove's material is exposed to temperatures between +100°C and +500°C. The length of time is then measured for how long it takes the material on the inside

of the glove to increase by 10°C from the starting temperature (approx. 25°C). 15 seconds is the minimum accepted length of time for approval. For example: to be marked with class 2, the glove's inside material must manage 250°C heat for 15 seconds before the material exceeds 35°C.

#### c Resistance to convective heat

The amount of time is measured for the heat from a gas flame (80Kw/kvm) to increase the temperature of the glove's inside material by 24°C.

#### 4 Resistance to radiant heat

The glove's material is stretched in front of a heat source with an effect of 20-40 kw/kvm. The average time is measured for heat penetration of 2.5 kw/kvm.

#### 5 Resistance to small splashes of molten metal

The test is based on the total number of drops of molten metal required to increase the temperature by 40°C between the inside of the glove and the skin.

#### 6 Resistance to large splashes of molten metal

Simulated skin is attached to the inside of the glove material. Molten metal is then poured over the glove material. The total number of grams is measured of how much molten metal is required to damage the simulated skin.

Performance level	1	2	3	4
a. Burning behaviour - After flare time	<20s	<10s	<3s	<2s
a. Burning behaviour - After glow time	no requir	<120s	<25s	<5s
b. Contact heat - Contact temperature	100°C	250°C	350°C	500°C
b. Contact heat - threshold time	>15s	>15s	>15s	>15s
c. Convective heat (heat transfer delay)	>4 s	>7 s	>10 s	>18 s
d. Radiant heat (heattransfer delay)	>7 s	>20 s	>50 s	>95 s
e. Small drops molten metal (#drops)	>10 s	>15 s	>25 s	>35 s
f. Large quantity molten metal (mass)	30 g	60 g	120 g	200 g