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Data Sheet

E-1313 Welding Gloves

It is specifically designed to be used where heat disturbs you. It provides appropriate protection thanks to its high abrasion and puncture resistance. It has high burning resistance. There are extra available in the thumb and package.

Overhand Material
Split leather that allows the hand to breathe

Palm Material
It is made of buffalo leather to increase the durability of the glove.

Reinforcement Area
Reinforced leather has been added to the palm to increase the durability of the glove.

Marking Area
It contains all the information that must be provided according to European norms.

Aramid Thread Sewing

Technical Specifications

Palm Material*	Skin Leather
Overhand Material *	Split Leather
Lining Material	JEANS
Size/Length	10/XL
Box Quantity	30 Pairs
Packaging	1 Pair
Category	CAT II
Standards	EN 388:2016+A1:2018 (3223X) EN 407 2020: (413X4X) EN ISO 21420:2020 EN 12477:2001+A1:2005 Type A

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REINFORCEMENT AREA & LINING MATERIAL

REINFORCEMENT AREA

The palm features reinforced buffalo leather stitched with aramid thread for extra protection.

Aramid Thread: Due to its natural structure, it is very durable and prevents the seams from being removed easily.

LINER

Soft denim lining therefore allows hands to work in comfort.

Indicates the reinforcement area.

STANDARDS

These gloves are designed to protect hands against mechanical hazards defined in PPE Directive (EU) 2016/425. This product has passed the tests of EN ISO 21420 (General requirements and inspection methods for protective gloves), EN 388 (Protection against Mechanical Risks) and EN 407 (Protection against Thermal Risks) and EN 12477.

EN 388: 2016 +A1:2018
3223X

EN 407 : 2020
413X4X

EN ISO 21420:2020

EN 12477:2001 +A1:2005 Type A

CE

Glove Mobility *(min.1-max.5)*: **2**

Usage Areas

- Building and Construction
- Automotive and Transportation
- Mining
- Cleaning
- Logistics and Storage
- Woodworks

It is used in many industries such as welding processes, transportation and cutting of metal parts, assembly and coating processes, heavy metal processes, injection moulds, use of cold and hot parts, repair, mining, transportation and in the iron and steel industry. It is suitable for use during deburring and hot metal operations in the automotive and iron and steel industries and when working with sharp-edged sheets and metals.

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STANDARD DESCRIPTIONS

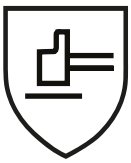
EN ISO 21420:2020

EN ISO 21420:2020 General Features and Test Methods

This standard specifies the general requirements for the glove's design, structure, protection against hazards, comfort, efficiency and marking and information applicable to all protective gloves. This standard also applies to arm guards. Some gloves designed for the most specialized applications, such as electricians or surgical activities, are governed by special stringent standards.

GLOVE SIZE	Suitable for Hand Size	Hand Circumference/Length	Minimum Length of Glove
6	6	152/160 mm	220 mm
7	7	178/171 mm	230 mm
8	8	203/182 mm	240 mm
9	9	229/192 mm	250 mm
10	10	254/204 mm	260 mm
11	11	279/215 mm	270 mm

EN 388:2016



a b c d e f

EN 388:2016+A1:2018 Protective Gloves Against Mechanical Risks

This standard covers the properties and test methods for protective gloves against mechanical risks such as abrasion, knife cutting, tearing and puncture.

SPECIFICATIONS:

Protective gloves conforming to this standard must meet all applicable requirements of EN 420. The performance level of a protective glove against mechanical risks must be higher for one of the qualities classified according to the minimum characteristics of each level shown in the table below (protection against abrasion, blade cutting, tearing, puncture and impact).

Note – Gloves that meet specifications for puncture resistance may not be suitable for protection against sharp-pointed objects such as hypodermic needles.

Letter **X** means the test has not been performed or cannot be administered.

PERFORMANCE LEVELS	1	2	3	4	5
a - Abrasion Resistance (number of cycles)	100	500	2000	8000	-
b - Cut resistance (index)	1,2	2,5	5,0	10,0	20,0
c - Tear resistance (N)	10	25	50	75	-
d - Puncture resistance (N)	20	60	100	150	-

PERFORMANCE LEVELS	A	B	C	D	E	F
e - Cut Resistance (N)	2	5	10	15	22	30
f - Protection Against Impact	Pass (P) / Failed (No sign)					

* For more detailed information on Standards, you can obtain **EN European Glove Standards Guidelines** from **www.starlinesafety.com**.

STANDARD DESCRIPTIONS

EN 407 :2020

abcdef

EN 407:2020 Protective Gloves Against Thermal Risks

This standard covers the properties, test methods, information to be provided and marking of protective gloves against heat and/or fire.

The performance levels in the main pictogram for protective gloves against thermal risks are given in the following order.

a. Ignition Resistance (0-4)
b. Contact Heat Resistance (0-4)
c. Transport Heat Resistance (0-4)
d. Radiant Heat / Radiant Heat Resistance (0-4)
e. Resistance to small drops of molten metal (0-4)
f. Resistance to large amounts of molten metals (0-4)

NOTE: *Using an X instead of a number means "the glove is not intended for use in the relevant experiment."*

PERFORMANCE LEVELS		1	2	3	4
Ignition Resistance	**Flaming Time (s)**	≤ 20	≤ 10	≤ 3	≤ 2
	Ember burning time (s)	-	≤ 120	≤ 25	≤ 5
Contact Heat Resistance	**Contact Temperature (oC)**	100˚C	250˚C	350˚C	500˚C
	Threshold Time (s)	≥ 15	≥ 15	≥ 15	≥ 15
Convection Heat / Heat transfer delay (s)		≥ 4	≥ 7	≥ 10	≥ 18
Radiant Heat / Heat transfer delay (s)		≥ 7	≥ 20	≥ 50	≥ 95
Small Amount of Molten Metal / Molten mass (g)		≥ 10	≥ 15	≥ 25	≥ 35
Large Amount of Molten Metal / Molten mass (g)		30	60	120	200

EN 12477 Protective Gloves for Welders

This standard is used for protective gloves used in manual metal welding, cutting and alloying operations. Protective gloves for welders protect the welder's wrists and hands during the welding period. It protects against small splashes of molten metal, exposure to brief contact with a confined flame, conduction heat from arcing, contact heat and UV radiation. In addition, it also provides protection against mechanical damage.

They are classified into two types according to their performance:
• Type A: Low proficiency (Other performance is higher)
• Type B: Highly proficiency (Other performance is lower)

NOTE: *Protective gloves for special welding operations are excluded from this scope.*

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Maintenance and Cleaning

We recommend cleaning gloves using a brush made of synthetic materials. Gloves should not be cleaned using hard or predatory materials. It should never be washed by hand or in the washing machine. It is the user's responsibility to check before use whether the product is suitable for the intended use, whether it is complete and whether its protective functions are intact. The user must carry out an inspection for possible defects that could adversely affect the protection functions (holes, tears, damaged joints, etc.).

Lifetime

Gloves must be used within five years from the date of manufacture. Many factors affect the lifespan of the glove, such as cold, heat, chemicals, sunlight, and improper storage.

Storage

Storage is part of maintenance and cleaning; but it is often overlooked. When not in use or during shipment, the glove should be stored in its original packaging, which will keep it away from direct sunlight, chemicals and corrosive substances, and protect it from physical damage of hard surfaces or substances. The product should be stored in a dry and well-ventilated place. Too much humidity or intense light in the environment may negatively affect product quality.

Order Information

MODEL	Size	Barcode	Box Quantity	Box Size	Box Weight
E-1313	10 / XL	8680907256605	30 Pairs	33 x 40 x33cm	14kg.