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WELDING GLOVES

Engineering Protection for Precision, Performance & Productivity

FORGE

WRANGLER'S™



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INTRODUCTION:

Welding gloves aren't ordinary PPE

In welding environments, gloves are not a passive protective layer; they are a **performance-critical interface between the welder and the weld**.

From high-heat industrial fabrication to precision TIG applications, gloves influence:

- **Arc stability and weld quality**
- **Operator fatigue and control**
- **Thermal and mechanical safety**

Well-engineered welding gloves bridge the gap between **protection and precision**, ensuring welders can perform without compromise.

Understanding Welding Processes & Glove Requirements

Welding gloves must be **application-driven**, not one-size-fits-all. The choice depends on:

- **Heat exposure**
- **Spatter intensity**
- **Dexterity requirements**

MIG vs TIG vs Stick – Functional Comparison

Parameter	TIG Welding	MIG Welding	Stick Welding
Heat Level	Low–Moderate	Moderate–High	Very High
Spatter	Minimal	Moderate	Heavy
Dexterity Need	Very High	Medium	Low
Glove Profile	Lightweight	Reinforced	Heavy-duty
Typical Leather	Goatskin	Cowhide	Split leather

TIG WELDING GLOVES:

Precision Meets Sensitivity

Technical Perspective

TIG welding requires **consistent arc precision**, as operators manually feed filler material.

Key glove characteristics:

- **Thin grain leather (goatskin/deerskin)**
- **Unlined or lightly lined interior**
- **High finger articulation**
- **Heat-resistant stitching (Kevlar/Twaron)**

The engineering focus is on **tactile feedback and flexibility**, not bulk protection.

Built for Precision Work

Gloves designed for TIG applications provide **natural hand movement and precise control**, ideal for:

- **75-251** – Grain leather TIG gloves with gauntlet cuff and high-heat resistant stitching
- **75-321 / 75-213** – Unlined grain cowhide options for superior dexterity
- **72-690 (Cut A6)** – For environments where cut hazards meet precision welding

Optimized for arc handling and reduced hand fatigue during long welding cycles.

User-Centric Showcase

Case Study 1: Aerospace Component Fabrication

A fabrication unit working on *thin-gauge aluminum components* experienced:

- Inconsistent weld beads due to limited control
- Increased operator fatigue from stiff gloves

Solution: Transition to lightweight TIG gloves (72-690)

Outcome:

- Improved weld consistency by ~20%
- Better torch control and filler wire handling
- Reduced fatigue in extended shifts
- Cut injuries dropped to 0%

Typical Applications

- Stainless steel fabrication
- Automotive body panels
- Food-grade and pharma piping systems

MIG WELDING GLOVES:

Protection Without Compromising Throughput

Technical Perspective

- *MIG welding introduces:*
- Higher heat loads
- Increased spatter
- Faster welding cycles

- *Glove requirements shift toward:*
- Thicker leather (cowhide/split leather)
- Reinforced palm and thumb areas
- Thermal lining (fleece/foam)
- Extended cuffs for forearm protection

The design goal is *thermal resistance + durability*, while retaining functional grip.

Designed for High-Heat Environments

For MIG welding, gloves must withstand *continuous exposure and mechanical wear*:

- **FORGE™ 75-282** – Cut A5 MIG glove offering durability and heat resistance
- **FORGE™ 75-283** – Fleece-lined for added thermal insulation
- **FORGE™ 75-363** – Grain leather with impact backing for protection
- **FORGE™ 75-313** – Unlined option for improved flexibility in medium heat tasks

These gloves support *longer usage cycles and consistent performance under stress*.

User-Centric Use Cases

Case Study 2: Structural Steel Fabrication

A plant performing *continuous MIG welding* reported:

- Frequent glove degradation
- Interruptions due to PPE replacement

Solution: Adoption of reinforced MIG gloves (75-282)

Outcome:

- 30–35% improvement in glove lifespan
- Reduced downtime from glove failure
- Increased operator confidence in high-heat zones

Typical Applications

- Structural steel fabrication
- Heavy equipment manufacturing
- Construction welding



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Material Science Behind Welding Gloves

Leather Performance Overview

Material	Key Advantage	Application
Goatskin	High dexterity, softness	TIG welding
Cowhide	Heat resistance, durability	MIG welding
Split Leather	Maximum protection	Stick welding
Deerskin	Premium flexibility	Precision TIG

Reinforcement Technologies

- **Kevlar / Twaron stitching** → Heat and cut resistance
- **Palm patches** → Abrasion resistance
- **Thermal linings** → Heat insulation

Ergonomics & Productivity Impact

Welding gloves directly influence **operator efficiency and safety outcomes**.

Performance Impact Factors

Factor	Operational Benefit
Fit & flexibility	Reduced fatigue
Grip control	Better weld precision
Heat resistance	Fewer interruptions
Durability	Lower replacement cost

Aligning Glove Design with Real-World Demands

Effective welding gloves are designed by balancing:

- **Protection vs dexterity**
- **Durability vs comfort**
- **Heat resistance vs flexibility**

The engineering focus is on **tactile feedback and flexibility**, not bulk protection.

A well-matched glove improves:

- Weld quality
- Operator safety
- Overall productivity



**Consistent
Arc Handling**



**Reduced
Hand Fatigue**

CONCLUSION:

The Right Glove Drives the Right Outcome

Different welding processes demand *different protective strategies*:

- TIG welding → *Precision and control*
- MIG welding → *Durability and heat resistance*

Selecting the right glove is not just about compliance, it directly impacts *performance, efficiency, and cost of operations*.

Choosing the Right Welding Gloves

Applications & Industries vs Welding Process

Industry	TIG Welding	MIG Welding	Stick Welding
Aerospace	Thin, precise ✓✓✓	Limited ✓	Repair ✓
Automotive	Body, exhaust ✓	Fast production ✓✓✓	Repair ✓
Food & Pharma	Hygienic SS ✓✓✓	Rare ✗	Not used ✗
Oil & Gas	Critical pipes ✓	Fabrication ✓✓	Field repair ✓✓✓
Construction	Limited ✗	Structures ✓✓✓	Outdoor ✓✓✓
Shipbuilding	Precision ✓	Heavy fab ✓✓✓	Outdoor/rep. ✓✓
Heavy Equip	Limited ✗	Thick mat ✓✓✓	Maintenance ✓✓
Pipeline	Root pass ✓	Fill passes ✓	Field weld ✓✓✓
MRO	Fine repair ✓	General repai ✓	Portable ✓✓✓
Railways	Precision parts ✓	Fabrication ✓✓	Track repair ✓✓✓
Power Plants	Critical parts ✓	Fabrication ✓	On-site rep. ✓✓✓

Primary/Best Fit ✓✓✓

Common Use ✓✓

Limited / Niche Use ✓

Rarely Used ✗

Application-Based Selection Guide

Requirement	Recommended Glove Type
Precision welding	TIG gloves (75-251, 72-690)
General fabrication	MIG gloves (75-313, 75-283, 75-363)
Extreme heat	Heavy-duty split leather gloves (75-282)

EXPLORE THE FULL RANGE

Discover the complete welding gloves portfolio designed for every application and environment.

FORGE™

75-282



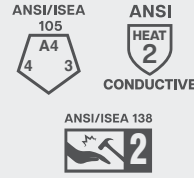
MIG

Grain Leather MIG Welding Gloves

- Premium goatskin leather
- Durable, snug protective fit
- Gunn cut for comfort and dexterity
- ANSI/ISEA 105: Cut A5, Abrasion 4, Puncture 3

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75-363



TIG MIG

Goat Skin Grain Leather Anti-Vibration Impact Welding Gloves

- Para-aramid liner
- Cow grain leather palm with gauntlet cuff
- ANSI/ISEA 105: Cut A4, Abrasion 4, Puncture 3
- Fleece-lined back-of-hand protection

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75-283



MIG

Grain/Split Cowhide Cotton Fleece-Lined Reinforced Palm MIG Welding Gloves

- Top grain cowhide for protection and flexibility
- Heat-resistant, stays supple when hot
- Abrasion 3, Puncture 3
- Seamless forefinger for trigger control

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72-690



TIG

Goatskin Grain Leather Drivers Gloves

- Goatskin leather with para-aramid liner
- Superior dexterity and abrasion resistance
- Cut protection with snug comfort fit
- ANSI/ISEA 105: Cut A6, Abrasion 4, Puncture 4
- Gauntlet cuff for extended protection

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75-313



MIG

Grain Goatskin with Split Cowhide Back MIG Welding Gloves

- Premium goatskin palm for sensitivity and control
- Heat resistant cowhide back stays soft and protective
- Fleece lining adds heat resistance without bulk
- Reinforced thumb improves grip and durability

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75-233



MIG

Grain Cowhide Aramid MIG Welding Gloves

- Durable cowhide for lasting protection and sensitivity
- ANSI/ISEA 105: Cut A7
- Top grain palm and fingers for soft tactile performance
- Wing thumb improves flexibility and grip
- Seamless index finger for precise control
- 6 inch cuff with Kevlar stitching for strength

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75-351



MIG

Grain Cowhide Leather Palm & Split Leather MIG Welding Gloves

- Full grain cowhide palm and index for strength and grip
- Cotton fleece lining adds warmth and comfort
- Split cowhide back for flexibility and durability
- Gunn cut with wing thumb for dexterity and less fatigue
- Aramid stitching for heat resistance and durability

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75-213



MIG

Grain Cowhide Unlined MIG Welding Gloves

- Top grain cowhide for durability and comfort
- ANSI Level 4 abrasion & puncture protection
- Naturally insulated with wing thumb for grip & flexibility
- Seamless forefinger for precise control
- 4 inch cuff with Kevlar stitching for strength

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75-321



TIG

GoatSkin Grain Leather TIG Welding Gloves

- Premium goatskin for comfort fit and durability
- Extended gauntlet cuff for heat and spark protection
- Gunn cut design for comfort and dexterity
- Para aramid stitching for strong seams
- ANSI compliant with heat abrasion and puncture protection

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75-321W



-20°C
-4° F



TIG

Goatskin Grain Leather TIG Welding Gloves, Winter

- Premium goatskin for comfort fit and durability
- Extended gauntlet cuff for heat and spark protection
- Gunn cut design for comfort and dexterity
- Para aramid stitching for strong seams
- Level 2 conductive heat protection

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72-690W



TIG

Goatskin Grain Leather TIG Welding Gloves

- Premium goatskin shell for comfort fit and durability
- Aramid liner for cut protection and comfort
- High dexterity with strong abrasion resistance
- Gauntlet cuff for extended protection
- Level 2 conductive heat protection
- Flair cuff for extended protection

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75-543



MIG

Premium Grain Leather with Cotton/Foam Back MIG Welding Gloves

- Premium gold elkskin for soft comfort under heat
- 14 inch length with reinforced thumb for durability
- Rough side palm for grip and control
- Cotton foam back for heat protection with dexterity
- Kevlar stitching and cuff for heat spark resistance

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75-251



TIG

Grain Leather TIG Welders - 4.5" Gauntlet Cuff & Twaron Stitching

- Cow grain leather for comfort and dexterity
- 4.5 inch gauntlet cuff for heat protection
- Twaron stitching for abrasion resistance and durability

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75-450-10



MIG

Split Leather 5 Finger Welders, Fully Lined

- Cow split leather for comfort and dexterity
- Twaron stitching for abrasion and heat resistance
- Gauntlet cuff for extended heat protection
- One piece back prevents spark exposure
- Fully lined for added heat protection

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75-485-10



MIG

Split Leather 5 Finger Welders, Fully Lined

- Twaron stitching resists abrasion and molten heat
- Gauntlet cuff for extended heat protection
- One piece back prevents exposed seams to sparks
- Red leather palm and thumb patch with cow split leather for comfort and durability

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72-490



MIG

Grain Goatskin ANSI/ISEA 105 Cut A4 MIG Welding Gloves

- Goatskin leather with aramid liner
- Flame- and heat-resistant construction
- 360° cut protection
- Heat Level 3 protection
- Aramid stitched seam strength



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