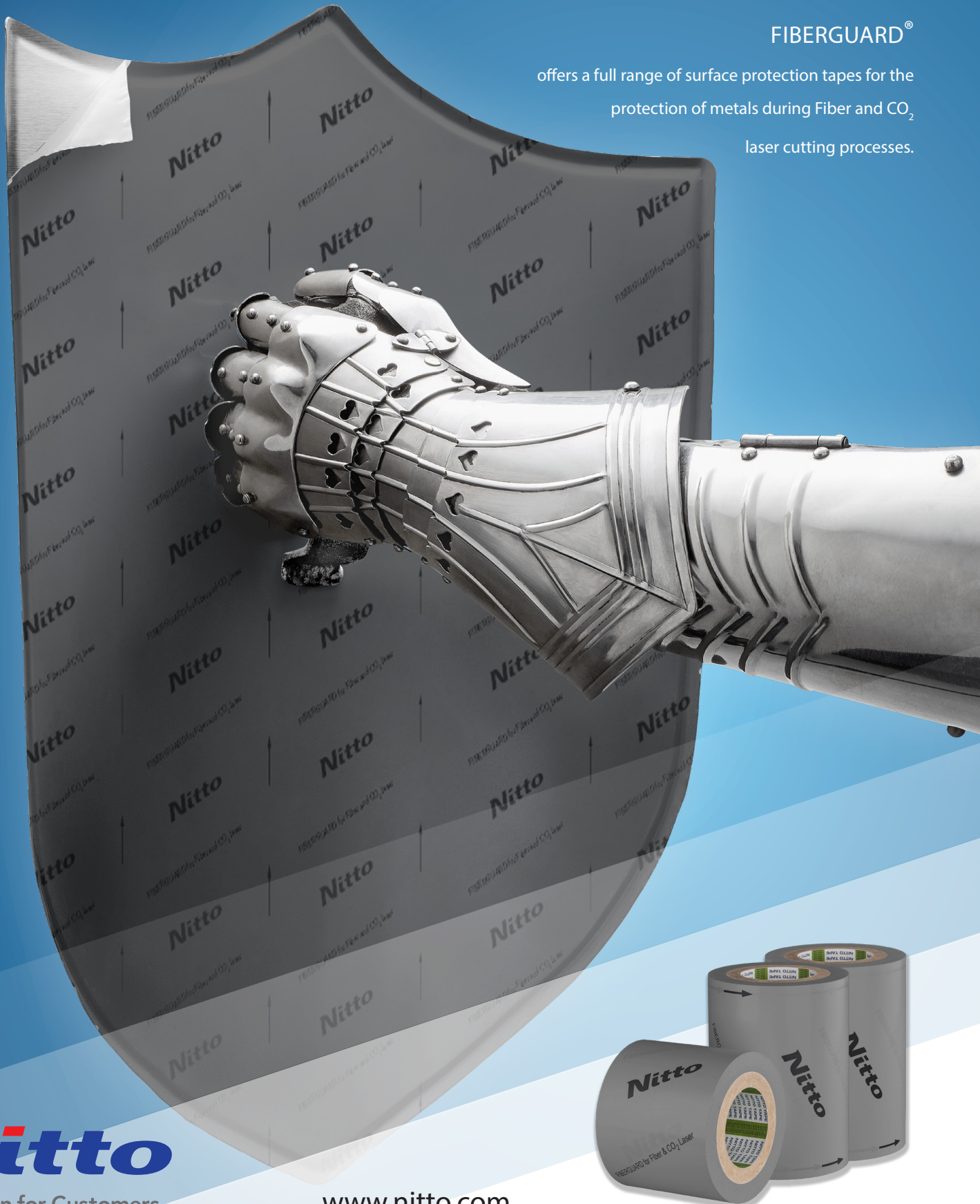


UNIVERSAL LASER FILM PRODUCTS

Strong protection Easy to peel

FIBERGUARD®

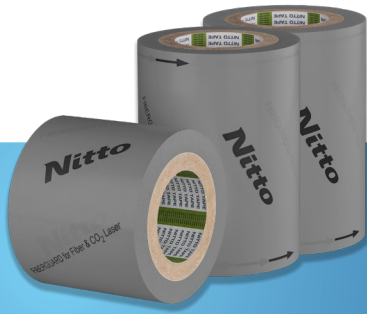
offers a full range of surface protection tapes for the
protection of metals during Fiber and CO₂
laser cutting processes.



Nitto

Innovation for Customers

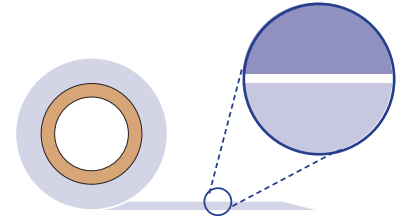
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FIBERGUARD® Universal Laser Cutting

Nitto's Fiberguard® protects metal surfaces during both Fiber and CO₂ laser cutting processes. The combination of a PE carrier with a rubber based adhesive and a special wax release layer makes it the ideal protective film for laser cutting processes, especially for high speed and performance laser cutting machines.

- The highest adhesion level available in the market prevents the film from blowing off during the laser cutting process.
- The unique adhesive technology provides the perfect balance between adhesion during the cutting process, and clean & easy removal after fabrication.
- Fiberguard® films are specially designed to be recognized by the laser beam wavelengths of both Fiber and Direct-Diode lasers.
- Ideal for difficult and complex shapes
- No precutting improves cost efficiency by allowing the laser to maintain optimum cutting speeds.
- Reduces deburring



- 1 Rubber based adhesive
- 2 PE film with special wax release coating

NITTO, INC.

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| | Fiberguard® 509H10P | Fiberguard® 511M10P |
|-------------------|--|--|
| Film Type | Black/Gray PE Film | Black/Gray PE Film |
| Adhesive | Rubber Based | Rubber Based |
| Total Thickness | 100 micron 4 mil | 100 micron 4 mil |
| Adhesion to Steel | 270 cN/20mm 12.5 oz/in | 170 cN/20mm 7.8 oz/in |
| Tack | High Tack | Low Tack |
| Print Color | Nitto FIBERGUARD for Fiber & CO ₂ Laser | Nitto FIBERGUARD for Fiber & CO ₂ Laser |
| Application | Thicker Gauge Over 2mm | Thinner Gauge Under 2mm |