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Useful Magnets Tightening Torque Chart 11.8" x 8.3"

Useful Magnets Tightening Torque Chart for SAE & Metric Bolts Instruction Manual

Model: Tightening Torque Chart 11.8" x 8.3"

1. Introduction

This manual provides comprehensive instructions for the proper use and care of your Useful Magnets Tightening Torque Chart. This magnetic reference guide assists in accurately tightening SAE and Metric bolts, contributing to safety and efficiency in various applications.
Proper bolt tightening is critical. Insufficient torque can lead to loose connections, while excessive torque can cause damage to fasteners or mating surfaces. This chart helps ensure consistent and accurate tightening, supporting the overall quality and reliability of mechanical connections.

2. Setup and Placement

The Useful Magnets Tightening Torque Chart features a magnetic backing for convenient placement. Follow these guidelines for optimal use:

- **Surface Preparation:** Ensure the metal surface where the chart will be placed is clean and dry to maximize magnetic adhesion.
- **Placement:** Attach the chart to any ferrous metal surface, such as a toolbox, workbench, or machinery. The strong, flexible magnet ensures it stays securely in place, even in active workshop environments.
- **Accessibility:** Position the chart in a location that is easily visible and accessible during your work to allow for quick reference.

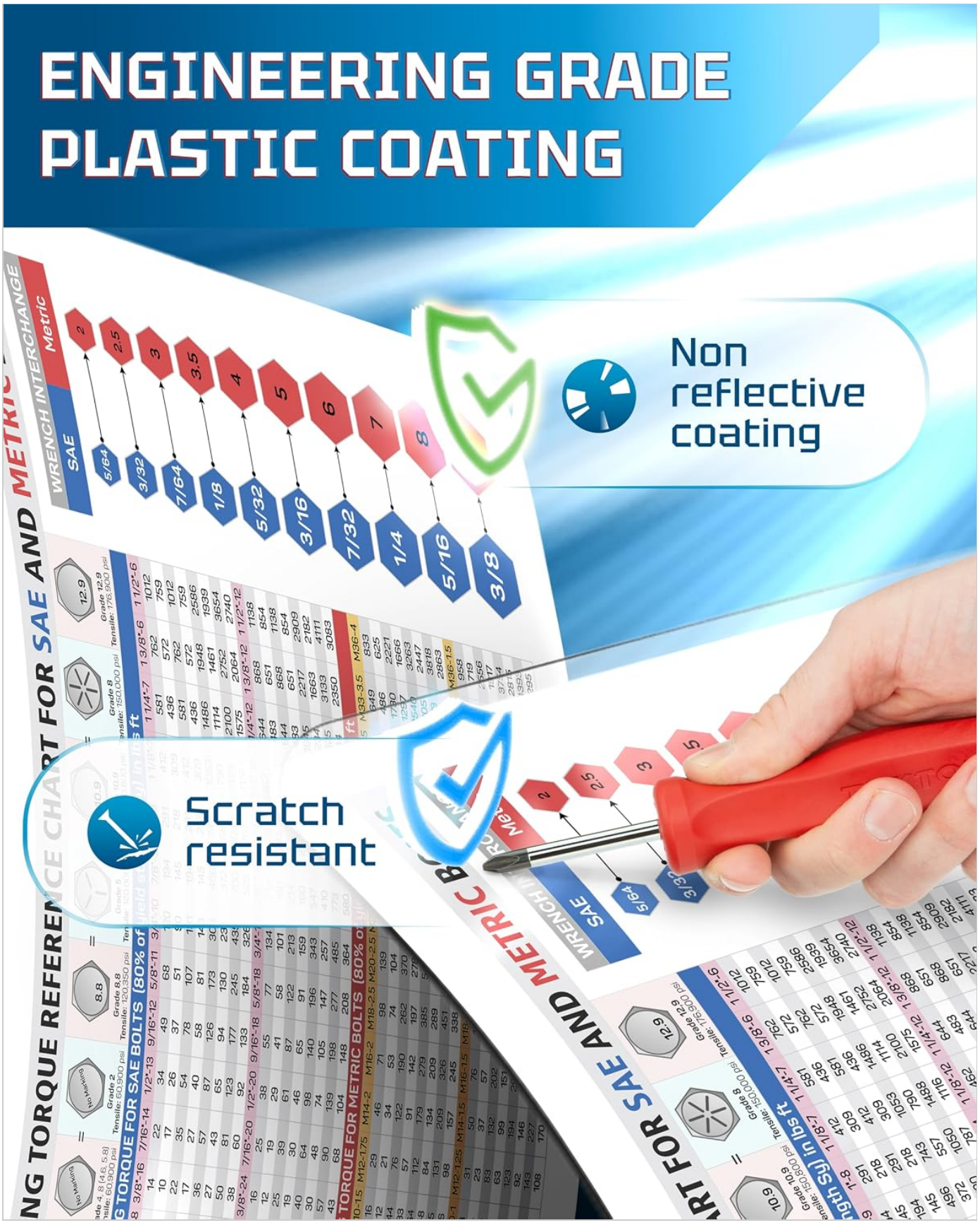


Image 1: The magnetic torque chart securely attached to a metal toolbox, demonstrating its convenient placement.

3. Operating Instructions: Reading the Torque Chart

This chart provides tightening torque specifications for both SAE and Metric bolts, along with a wrench interchange guide. Familiarize yourself with its layout for efficient use.

3.1. Understanding Torque Values

The chart displays torque values in pounds-feet (lbs Ft) for both lubricated (L) and non-lubricated (NL) conditions. Always refer to the correct lubrication status for your application, as lubrication significantly affects the required torque.

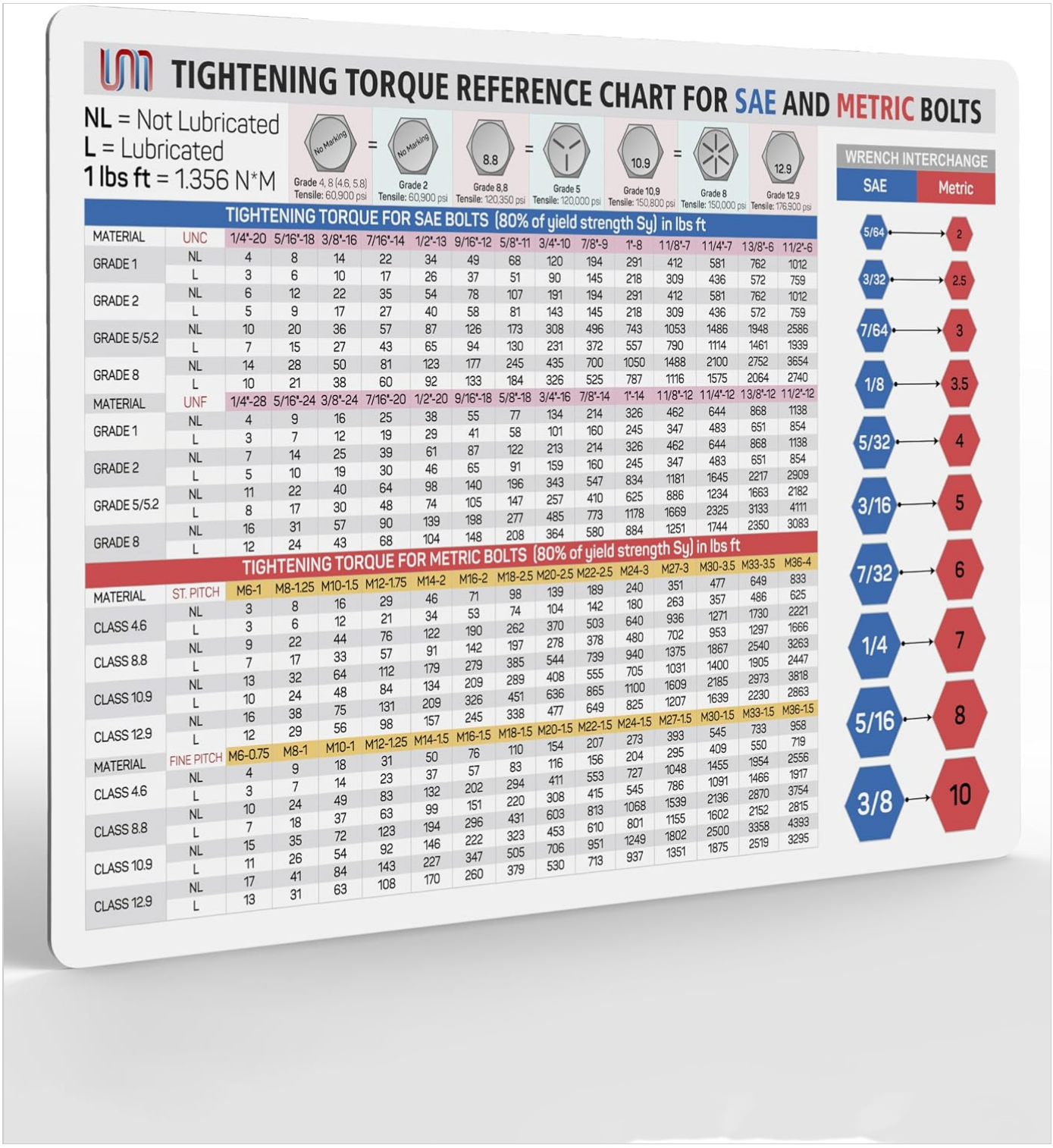


Image 2: A detailed view of the torque chart, showing columns for lubricated and non-lubricated torque values for various bolt grades.

3.2. SAE Bolt Torque Specifications

Refer to the "Tightening Torque for SAE Bolts" section. This section covers UNC (Unified National Coarse) and UNF (Unified National Fine) threads ranging from 1/4 inch to 1-1/2 inches. Torque values are provided for different bolt grades:

- Grade 1
- Grade 2
- Grade 5/5.2
- Grade 8

Locate your bolt’s material grade, size, and lubrication status to find the recommended torque value.

3.3. Metric Bolt Torque Specifications

Refer to the "Tightening Torque for Metric Bolts" section. This section includes standard and fine pitch threads from M6 to M36. Torque values are provided for different property classes:

- Class 4.6
- Class 8.8
- Class 10.9
- Class 12.9

Identify your bolt’s property class, size, pitch, and lubrication status to determine the correct torque value.

3.4. Wrench Interchange Chart

The chart includes a "Wrench Interchange" section to assist in selecting the appropriate wrench size when converting between SAE and Metric measurements. This feature helps ensure the correct tool is used, preventing damage to fasteners.

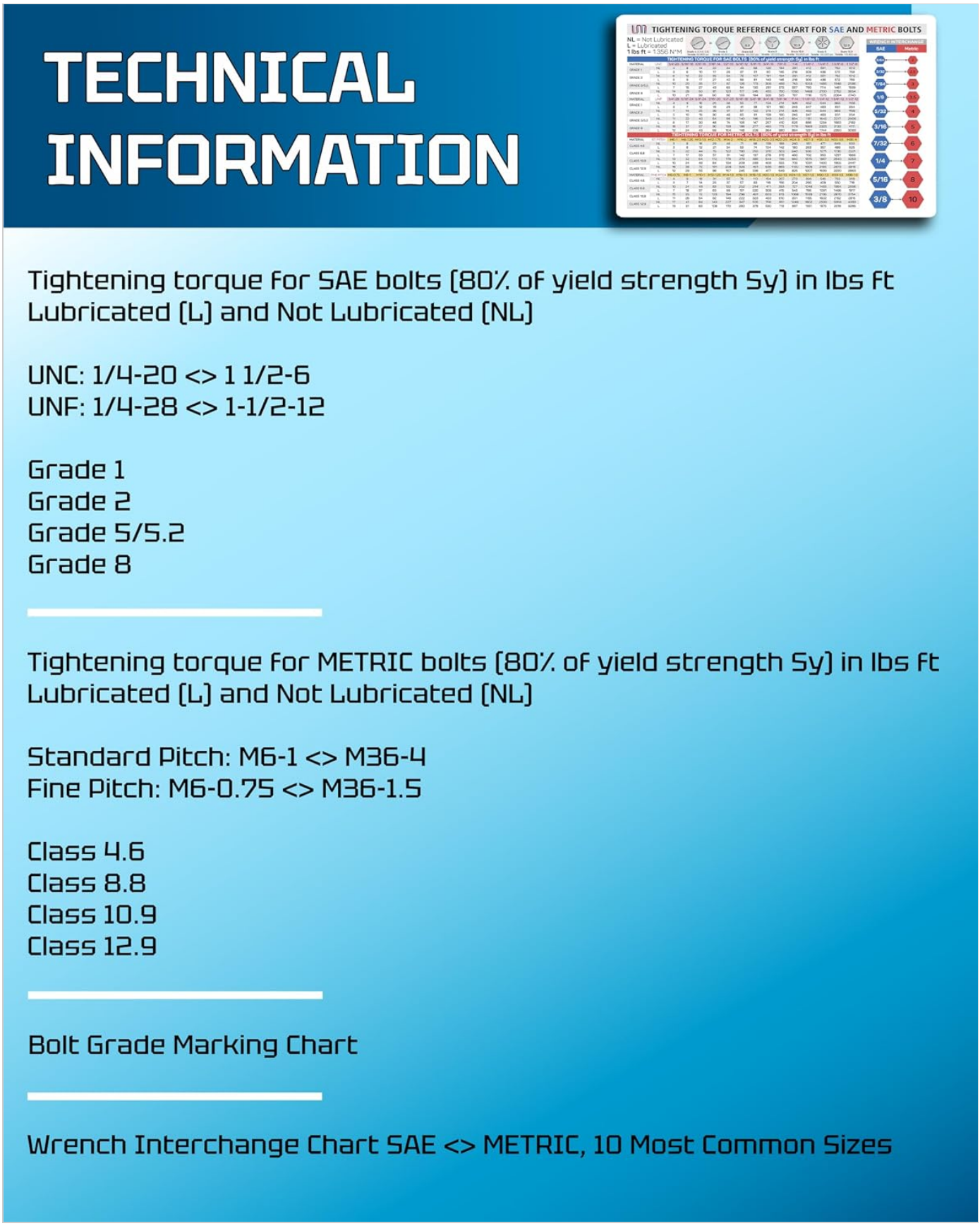


Image 3: The wrench interchange section of the chart, illustrating common SAE and Metric wrench size equivalents.

4. Maintenance and Care

To ensure the longevity and readability of your torque chart, follow these maintenance guidelines:

- **Cleaning:** Wipe the chart with a damp cloth to remove dust, grease, or grime. Avoid abrasive cleaners that could damage the surface.

- **Storage:** While the chart is durable and waterproof, storing it in a clean, dry environment when not in use will help preserve its condition.
- **Avoid Extreme Conditions:** Although designed to withstand workshop environments, prolonged exposure to direct sunlight or extreme temperatures may affect the material over time.
- **Magnetic Integrity:** The magnetic attraction is designed to be maintained above 95% after 3 years. Avoid placing the magnet near strong demagnetizing fields.

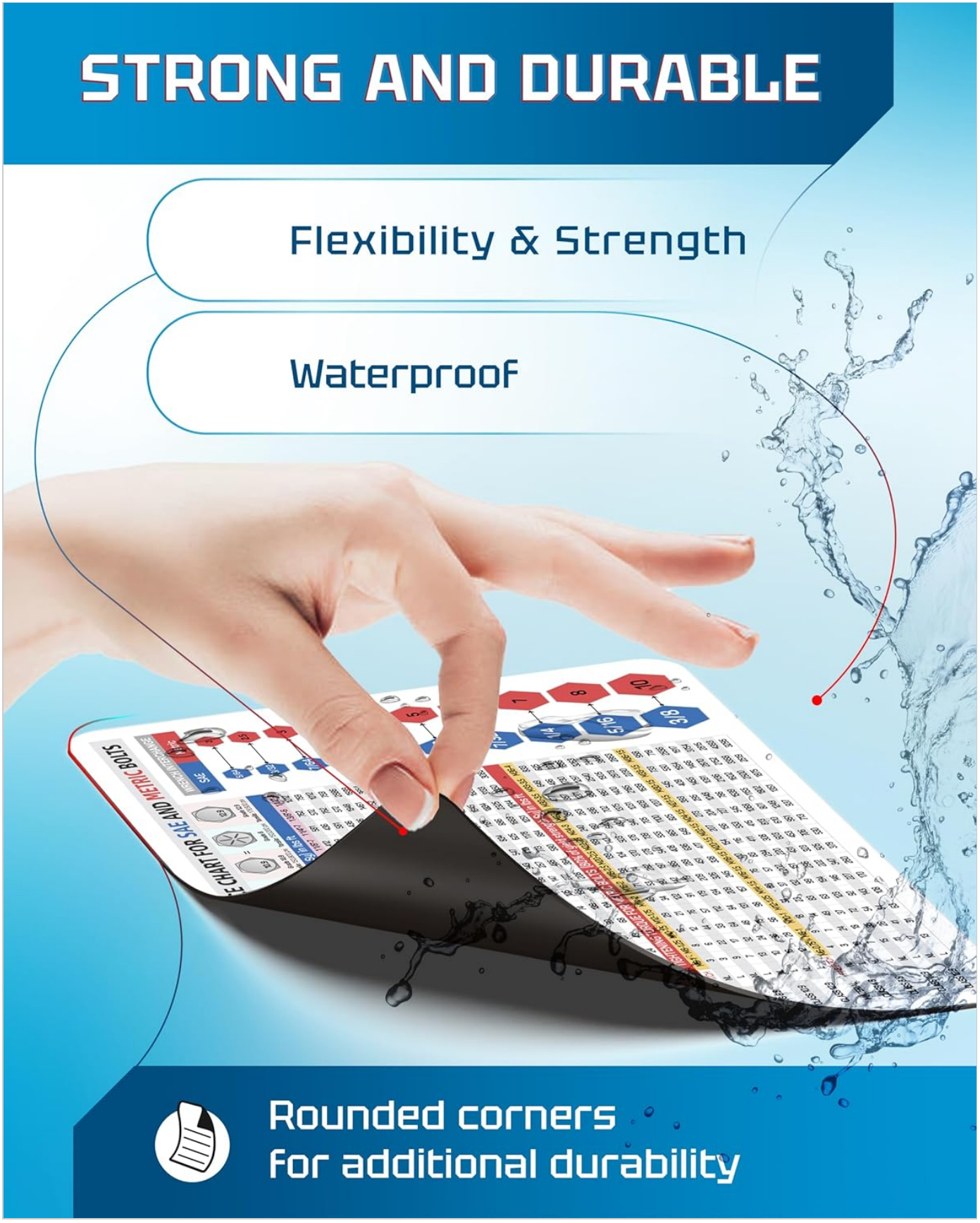


Image 4: Demonstrating the waterproof nature of the chart, showing it being wiped clean with water.

5. Troubleshooting

If you encounter any issues with your torque chart, consider the following:

- **Chart Not Sticking:**
  - Ensure the surface is ferrous metal.
  - Clean both the chart's magnetic back and the target surface to remove any debris that might hinder adhesion.
  - Verify the surface is flat and free of significant texture or rust.
- **Readability Issues:**
  - Ensure adequate lighting in your workspace.
  - Clean the chart surface if smudges or dirt are obscuring the text.

6. Specifications

Feature	Detail
Brand	Useful Magnets
Model Number (ASIN)	B09947DVLT
Size	11.8" x 8.3"
Material	Plastic, Flexible Magnetic Sheeting
Finish Type	Powder Coated
Shape	Square
Item Weight	7.1 ounces (200 Grams)
Measurement System	Inch, Metric
Country of Origin	Canada

7. Warranty and Support

The Useful Magnets Tightening Torque Chart comes with a**1-year warranty**. For any questions, concerns, or support needs regarding your product, please contact Useful Magnets customer service through their official channels or the retailer where the product was purchased.
For additional information, you may visit theUseful Magnets Store.

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