

NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.



AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

SPECIFICATION FOR LEATHER, COWHIDE, SPLIT, CHROME TANNED

1.1 Scope

This specification covers the requirements for leather, cowhide, split, chrome tanned.

1.2 Classification

The fabric must be classified as: Leather, Cowhide, Split, Chrome Tanned.

1.3 Applicable Documents

The following documents form part of this specification to the extent specified, and are supportive of this specification when referenced; all other document references are to be considered supplemental information only. In the event of a conflict between the documents referenced and the contents of this specification, then the contents of this specification must take precedence:

American Society for the Testing of Materials (www.astm.org)

- ASTM D2209 Standard Test Method for Tensile Strength of Leather
- ASTM D2617 Standard Test Method for Total Ash in Leather
- ASTM D2807-93 Standard Test Method for Chromic Oxide in Leather (Perchloric Acid Oxidation)
- ASTM D2810-93 Standard Test Method for pH of Leather
- ASTM D3495 Standard Test Method for Hexane Extraction of Leather
- ASTM D4704 Standard Test Method for Tearing Strength, Tongue Tear of Leather
- ASTM D6076 Standard Test Method for Shrinkage Temperature of Leather

1.4 Order of Precedence

In the event of any inconsistency in contract documents such as contract, specification and sealed patterns, the order of precedence must be contract, specification, and sealed pattern. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification must take precedence. For any inconsistency in technical details between languages, the language of the original document, which in this case is English, must take precedence. Nothing in this document supersedes applicable laws and regulations, unless a specific exemption has been obtained.

2.0 REQUIREMENTS

2.1 Materials

The split leather must be taken from full chrome tanned green or salted bovine hides. Dry hides must not be used. The leather must be fat liquored but not stuffed. The finished leather must be thoroughly tanned and mellow and tight fibered. Loose or spongy leather will not be accepted. Materials used in tanning and finishing must have no injurious effects on the leather or on the ultimate user of the leather.

2.2 Finish

The flesh side must be free from loose flesh. After fleshing and splitting, the leather must be buffed to a smooth and even finish. The leather must be soft and pliable.

2.3 Trim

The sides must have the heads and bellies trimmed off. The edges of the butt and forepart must be trimmed in accordance with standard leather tannery practices and must be free from ragged edges.

2.4 Colour

The leather must be cream or brown in colour.

2.5 Chemical Properties

When tested in accordance with the methods referenced, the leather must meet the chemical requirements specified in Table 1

2.6 Physical Properties

When tested in accordance with the methods referenced, the leather must meet the physical requirements specified in Table 2.

2.7 Workmanship

The materials covered by this specification must be free of imperfections or blemishes such as may adversely affect its appearance or serviceability. For inspection purposes, imperfections and blemishes must be considered defects when clearly visible at a normal inspection distance of approximately 1 m (3.3 ft) under good, preferably Northern Light, lighting conditions.

Table 1: Chemical Properties of the Leather

| Properties (Moisture Free Basis) | Test Method | Requirements | |
|--|-------------|--------------|---------|
| | | Minimum | Maximum |
| Ash | ASTM D2617 | | 10% |
| Fat (percent) Average (by Chloroform Extraction) | ASTM D3495 | 10% | 25% |
| Chromic Oxide (CR ₂ O ₃) (% on hide substance basis) | ASTM D2807 | 3.5% | |
| pH | ASTM D2810 | 3.0 | |

Table 2: Physical Properties of the Leather

| Properties (Moisture Free Basis) | Test Method | Requirements | |
|---|-------------|------------------------|---------|
| | | Minimum | Maximum |
| Tensile Strength, Average | ASTM D2209 | 2500 psi (175.8 kg/cm) | |
| Tongue Tear Strength, Average* | ASTM D4704 | 20 lbs (9.06 kg) | |
| Shrinkage Temperature | ASTM D6076 | 97 o C | |
| * Average Tongue Tear Strength result is based on testing a 4 oz (1.59 mm) substance of leather | | | |

