

CENTRAL LEATHER RESEARCH INSTITUTE, ADYAR, CHENNAI-600 020
TESTING CHARGES OF CATERS

05.11.2016

| S. No. | Test Particulars | Charges/per sample (Rs.) |
|----------------------------------|---|--------------------------|
| I. | LEATHER | |
| | 1. Chromic oxide | 600.00 |
| | 2. Colodium | 1000.00 |
| | 3. Differential number | 500.00 |
| | 4. Moisture | 500.00 |
| | 5. Nitrogen & hide substance | 500.00 |
| | 6. pH of water solubles | 250.00 |
| | 7. Solvent extractable substance | 500.00 |
| | 8. Solvent extractable substance & FFA | 1000.00 |
| | 9. Specific gravity (density) | 500.00 |
| | 10. Spew observatory test | 500.00 |
| | 11. Sulphated ash of water soluble | 600.00 |
| | 12. Total ash | 500.00 |
| | 13. Total ash, hide substances (protein), % of water soluble organic and fat (or) degree of tannage | 2100.00 |
| | 14. Volatile matter | 500.00 |
| | 15. Water insoluble ash | 600.00 |
| | 16. Water soluble chlorides | 500.00 |
| | 17. Water soluble matter/ wash content | 300.00 |
| | 18. Water soluble organics substances | 600.00 |
| | 19. Water soluble sulphate | 500.00 |
| Restricted substances in Leather | | |
| | 1. Azo dyes | 3500.00 |
| | 2. Chlorophenol (tri, tetra & penta) | 5000.00 |
| | 3. Chrome VI content | 1000.00 |
| | 4. Chrome VI content - (after ageing) | 1500.00 |
| | 5. Chrome VI content - (before & after ageing) | 2000.00 |
| | 6. DMFu | 5000.00 |
| | 7. Ethoxylated alkylphenol (nonyl & octyl) | 4000.00 |
| | 8. Formaldehyde content (chemical) | 3000.00 |
| | 9. Formaldehyde content (leather) | 1000.00 |
| | 10. Nickel release | 1000.00 |
| | 11. Organotins | 4000.00 |
| | 12. PAH | 4000.00 |
| | 13. PCB (polychlorinated biphenyle) | 5000.00 |
| | 14. PCP (pentachlorophenol) | 2000.00 |
| | 15. Pesticides | 5000.00 |
| | 16. Phenol | 2000.00 |
| | 17. Phthalates | 2000.00 |
| | 18. Preservatives (TCMBT, PCMC, OPP, OIT) | 6500.00 |
| | 19. Short chain chloro paraffins (C ₁₀ -C ₁₃) | 4000.00 |
| | 20. Tetrachlorophenol | 2000.00 |
| | 21. Trace elements (per element) | 1000.00 |

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| | 22. Tri & Tetrachlorophenol | 3000.00 |
| | 23. Trichlorophenol | 2000.00 |
| II. | A. ASSAY % Purity tests for : | |
| | 1. Concentration or active meter | 600.00 |
| | 2. Formic acid | 1000.00 |
| | 3. Lime | 2000.00 |
| | 4. Sodium chloride | 2000.00 |
| | 5. Sodium formate | 2000.00 |
| | 6. Sodium hydrosulphide | 2000.00 |
| | 7. Sodium sulphate | 2000.00 |
| | 8. Sodium sulphide | 2000.00 |
| | 9. Sodium thiosulphate | 2000.00 |
| | 10. Sodium-bicarbonate | 2000.00 |
| | 11. Sodium-bisulphite | 2000.00 |
| | 12. Solid content | 600.00 |
| | B. Purity Analysis | |
| | 1. Acrylamide | 1250.00 |
| | 2. Benzene | 1250.00 |
| | 3. Methacrylic acid | 1250.00 |
| | 4. Naphthalene | 1250.00 |
| | 5. Toluene | 1250.00 |
| III. | Auxiliary | |
| | A. OIL/FATLIQUOR ANALYSIS | |
| | 1. Acid value* | 250.00 |
| | 2. Fatliquor analysis | 2000.00 |
| | 3. FFA* | 250.00 |
| | 4. Iodine value* | 250.00 |
| | 5. Saponifiable matter* | 250.00 |
| | 6. Solvent extractable substance | 750.00 |
| | 7. Unsaponifiable matter* | 250.00 |
| | B. WATER | |
| | 1. Water analysis (for tanning industry) (pH, total alkalinity, total hardness, iron, manganese, chlorides.) | 1500.00 |
| | 2. Water hardness | 750.00 |
| IV. | Tanning Material | |
| | A. Chrome Tanning | |
| | 1. Basicity of chrome | 600.00 |
| | 2. BCS (Cr ₂ O ₃ , pH, moisture, basicity) | 1500.00 |
| | 3. Chrome content (Cr ₂ O ₃) | 600.00 |
| | 4. Chrome VI content | 1000.00 |
| | 5. Free sulphate | 600.00 |
| | 6. Sulphur | 1000.00 |
| | B. Vegetable Tanning | |
| | 1. Ash content | 500.00 |
| | 2. Iron content | 1000.00 |
| | 3. pH of water solubles | 250.00 |
| | 4. Tannin analysis | 1500.00 |

| | C. Syntan | |
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| | 1. Ash content | 500.00 |
| | 2. Iron content | 1000.00 |
| | 3. pH of water solubles | 250.00 |
| | 4. Tannin analysis | 1500.00 |

*** Solvent extractable substance analysis is pre-requisite.**

| LEATHER & LINING MATERIAL | | SHOE | | SOLING MATERIAL | |
|--------------------------------------|------|------------------------------------|------|-------------------------------------|------|
| Adhesion of finish | 1200 | Abrasion resistance of sole | 1200 | Abrasion resistance | 1200 |
| Apparent density Ability | 500 | Back height / quarter height | 400 | Adhesion strength | 1200 |
| Break / pipiness | 400 | Buckle attachment strength | 800 | Bennewart /Bata belt Flexing | 1200 |
| Breaking load | 700 | Colour fastness to rubbing | 800 | Thickness and cleat height | 400 |
| Coating adhesion | 1200 | Electrical resistance | 800 | Compression set | 1000 |
| Cold crack resistance | 700 | Eyelet -facing strength | 800 | Density | 500 |
| Collodium test | 500 | Eyelet- security | 800 | Hardness | 500 |
| Colour fastness to perspiration | 800 | Heel pull off strength | 1000 | Heat shrinkage | 800 |
| Colour fastness to water | 800 | Nail penetration | 800 | Oil resistance | 1200 |
| Contact storage | 700 | Perspiration/ water fastness | 800 | Ross flexing-room temp. / low temp. | 1200 |
| Flexing resistance – Bally / vamp | 1200 | Seam strength | 800 | Slip resistance | 5000 |
| Flexing resistance – low temp. | 1200 | Slip resistance | 5000 | Hydrolysis resistance (PU sole) | 3000 |
| Hydrolysis resistance (PU coated) | 3000 | Sole bond strength, inside outside | 1200 | Tear Strength | 800 |
| Heat fastness | 800 | Strap attachment strength | 800 | Tensile strength / extension | 800 |
| Lastometer | 800 | Heat ageing | 3000 | TAPE MATERIAL | |
| Light fastness | 5000 | Toe load | 800 | Adhesion strength | 1200 |
| Martindale abrasion | 1200 | Toe puff / bond strength | 1200 | Breaking load | 800 |
| Needle perforations strength | 800 | Top piece attachment strength | 800 | Water fastness | 800 |
| Oil Repellency test | 1200 | Top piece turning strength | 800 | TOE PUFF/COUNTER | |
| Qualitative peel test | 500 | Water resistance–whole shoe | 1700 | Adhesion strength | 1200 |
| Rub fastness – Veslic | 800 | Weight/Mass | 400 | Resilience, moisture resistance | 1750 |
| Rub fastness - Circular | 800 | Whole shoe flexing | 1700 | Breaking strength & extension | 800 |
| Rub fastness, - Crock meter | 800 | Whole sole bond strength | 1200 | LACE | |
| Seam strength | 800 | Whole top line strength | 800 | Abrasion resistance | 1200 |
| Sole leather - Abrasion resistance | 1200 | INSOLE-FORE / BACK PART | | Breaking load | 800 |
| Sole Leather - Grain crack index | 800 | Abrasion resistance | 1200 | Knot slippage | 800 |
| Sole Leather – WA-Kubleka | 800 | Cushioning properties | 1500 | Light fastness | 5000 |
| Sole leather – Water resistance | 1000 | Density | 500 | Tag retention strength | 800 |
| Stitch tear strength | 800 | Dimensional stability | 800 | Water fastness | 800 |
| Stretch and flex resistance | 1200 | Flexing index | 1200 | Wick test | 500 |
| Tear strength | 800 | Heel pin holding strength | 800 | BUCKLE | |
| Tensile strength / extension | 800 | Peel strength | 800 | Corrosion resistance | 800 |
| Thickness / Substance | 200 | Scuff resistance | 1200 | Strength of fastened buckles | 800 |
| Water penetration (Bally) | 1000 | Surface water absorption | 800 | Three point bend strength | 800 |
| Water penetration (Maeser) | 1000 | Tensile strength / extension | 800 | STEEL SHANK | |
| Water spotting | 500 | Transverse tensile strength | 1200 | Fatigue resistance | 1200 |
| Water vapor absorption | 800 | Stitch tear strength | 800 | Hardness (Rockwell) | 500 |

| | | | | | |
|--------------------------------------|------|-------------------------------------|------|-------------------------------------|------|
| Water vapour permeability | 1200 | Water absorption & desorption | 800 | Stiffness | 800 |
| Water vapour permeability & coeff. | 1200 | SAFETY SHOES | | ADHESIVE | |
| Weight/ Mass | 400 | Electrical resistance | 800 | Adhesion characteristics | 1200 |
| Wicking test | 500 | Flexing resistance of midsole | 1200 | Solid content | 500 |
| Wrinklometer | 300 | Fuel oil resistance | 1200 | VELCRO | |
| Silica gel effectiveness | 500 | Heat / cold resistance of shoe | 800 | Needle perforation | 800 |
| Shrinkage temp | 500 | Heel pin holding strength | 800 | | |
| Heat ageing | 3000 | | | | |
| ZIP | | Hot contact for sole | 800 | Peel strength initial & after wear | 1600 |
| Burst strength | 800 | Inter layer bond strength | 1200 | Shear strength initial & after wear | 1600 |
| Closure under lateral load | 800 | Nail penetration for steel mid sole | 800 | Colour fastness | 800 |
| Colour fastness to rubbing | 800 | Slip resistance | 5000 | Water fastness | 800 |
| End stop st. (top, bottom, stringer) | 800 | Toe cap- Compression resistance | 800 | INDUSTRIAL GLOVES | |
| Fatigue resistance | 1000 | Toe cap- Corrosion resistance | 800 | Abrasion resistance | 1200 |
| Lateral load | 800 | Toe cap- Impact resistance | 800 | Tear strength | 800 |
| Needle perforation | 800 | Toe cap-internal length | 400 | Water vapour permeability | 1200 |
| Puller strength | 800 | EYELETS | | Seam strength | 800 |
| Slider locking strength | 800 | Abrasion resistance | 1200 | ELASTICS TAPE | |
| Water / perspiration fastness | 800 | Attachment strength | 800 | Flexing resistance | 1200 |
| THREAD | | Security of eyelet | 800 | Limit of useful extension | 1000 |
| Breaking load | 1000 | Colour tarnishing test and | 800 | Needle perforation strength | 800 |
| Tex value | 500 | Corrosion resistance | | Rub fastness | 800 |
| Water / perspiration fastness | 800 | | | Water fastness | 800 |

GST @ Actual [18%]

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