Insulating Safety Mats & Rubber Sheets

Technical Specifications

Conforming IEC 61111, IS 15652, IS 5424, IS 5192, IS 2751

Descarga Eléctrica Seguridad aislante Esteras

ماتس العزلة السلامة الكهربائية المصميات

De choc électrique sécurité isolant Tapis
## Index

<table>
<thead>
<tr>
<th>S.No</th>
<th>Title</th>
<th>Page No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>About HIC</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Specification of Rubber Mat Sheets</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Why HIC Universal Rubber Mat Sheets?</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>Range of Rubber Mat Sheets</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Switchboard Electrical Insulating Matting as per IEC 61111</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>High Voltage Safety Electrical Insulating Mat as per IS 15652</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>Substation Rubber Mat For Electrical Purpose as per IS 5424</td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>Neoprene Rubber Sheeting</td>
<td>6</td>
</tr>
<tr>
<td>9</td>
<td>Nitrile Rubber Sheeting</td>
<td>7</td>
</tr>
<tr>
<td>10</td>
<td>Viton Rubber Sheeting</td>
<td>7</td>
</tr>
<tr>
<td>11</td>
<td>EPDM Rubber Sheeting</td>
<td>8</td>
</tr>
<tr>
<td>12</td>
<td>Silicone Rubber Sheeting</td>
<td>9</td>
</tr>
<tr>
<td>13</td>
<td>Styrene Butadiene Rubber SBR Sheeting</td>
<td>9</td>
</tr>
<tr>
<td>14</td>
<td>Shot Blasting Natural Rubber Sheeting</td>
<td>10</td>
</tr>
<tr>
<td>15</td>
<td>Insertion Rubber NR/SBR Sheeting</td>
<td>11</td>
</tr>
<tr>
<td>16</td>
<td>Butyl Rubber Sheeting</td>
<td>11</td>
</tr>
<tr>
<td>17</td>
<td>Cork Sheet Nitrile or Neoprene Rubberized</td>
<td>12</td>
</tr>
<tr>
<td>18</td>
<td>Hypalon Rubber Sheeting</td>
<td>12</td>
</tr>
<tr>
<td>19</td>
<td>Order Quantity Minimums</td>
<td>13</td>
</tr>
<tr>
<td>20</td>
<td>Nomenclature of Insulating Matting as per IEC 61111 (Technical Data)</td>
<td>14</td>
</tr>
<tr>
<td>21</td>
<td>Nomenclature of Electrical Insulating Mats as per IS 15652 (Technical Data)</td>
<td>15</td>
</tr>
<tr>
<td>22</td>
<td>Nomenclature of Switchboard Matting as per ASTM D178 (Technical Data)</td>
<td>16</td>
</tr>
<tr>
<td>23</td>
<td>Nomenclature of High Voltage Rubber Mat as per IS 5424 (Technical Data)</td>
<td>17</td>
</tr>
<tr>
<td>24</td>
<td>Nomenclature of Rubber Sheet (Technical Data)</td>
<td>18</td>
</tr>
<tr>
<td>25</td>
<td>Selection of Rubber Sheet...</td>
<td>22</td>
</tr>
<tr>
<td>26</td>
<td>Purchase Enquiry Info</td>
<td>24</td>
</tr>
<tr>
<td>27</td>
<td>Shipment Handling &amp; Delivery Time</td>
<td>24</td>
</tr>
<tr>
<td>28</td>
<td>Organization Structure</td>
<td>25</td>
</tr>
<tr>
<td>29</td>
<td>Production Capacity</td>
<td>25</td>
</tr>
<tr>
<td>30</td>
<td>Quality Assurance Plan</td>
<td>26</td>
</tr>
<tr>
<td>31</td>
<td>Test Certificate &amp; Warranty</td>
<td>26</td>
</tr>
<tr>
<td>32</td>
<td>Manufacturing &amp; Testing Equipments</td>
<td>27</td>
</tr>
<tr>
<td>33</td>
<td>Quality Control</td>
<td>27</td>
</tr>
<tr>
<td>34</td>
<td>ISO Certification</td>
<td>28</td>
</tr>
<tr>
<td>35</td>
<td>Awards</td>
<td>28</td>
</tr>
<tr>
<td>36</td>
<td>Customers Performance Certificates</td>
<td>28</td>
</tr>
</tbody>
</table>
Specification of Rubber Mat Sheets

Classified under HS Code 4008

HIC Universal Insulating Rubber Mats are used as a dielectric carpet for electrical insulation to prevent shock around high voltage electrical panels, switchgear, control panels, switch board, and transformers superseding IEC 61111, IS 15652, IS 5425, ASTM D178 Quality Standards.

While, HIC Universal Rubber Sheets are used for jointing between flanges and/or similar joints subjected to pressures of water/air/low pressure steam up to 3.5 kg/cm² in steel mills, fertilizer industries, chemical & pharmaceutical plants, food, etc produced in solid black colour vulcanized sheet possessing excellent physical properties, resistant to air, water, steam & compression set superseding IS 638, IS 5192, IS 2751, BS 2751, BS 2752, DIN 32676 quality standards.

About HIC

HIC International Co Inc, formed in 1988 manufacturing industrial rubber and steel products ISO 9001 certified producer of Safety insulating rubber mat sheet, Conveyor Belt Idler Pulley, Power Transmission belt drive coupling, Hydraulic hose valve quality exporters of HIC Universal brand to industrial traders distributors of USA, Australia, UAE, Singapore, China, South Africa, UK, Germany, Taiwan having manufacturing factories in Delhi and Ghaziabad UP of India.

Total Quality Management principles are followed and True Performance is thus assured.
**Why HIC Universal Electrical Insulating Mat?**

- **Excellent Shock Protection**
  Providing Good Electrical Safety

- **High Voltage and Spark Resistant**
  Floor Insulation

- **Anti-slip Design**
  Prevents Injury to Workmen Near Panel-board

**Why HIC Universal Rubber Sheet?**

- **High Resistance**
  to Steam, Water, Heat, Chemicals, Oil and Weather

- **Excellent Compression Set**
  Apt for Gasket, Diaphragms and Strips

- **Friction-proof and Corrosion-proof Jointing**
  Versatile Sheeting Solution

Electrical **current safety** anti-static floor covering essentials insulating mats manufactured of electrical-resistant up to 66 kV AC and 240 V DC voltage elastomer blend of synthetic rubber and natural rubber without insertion having anti-skip aberration marks top surface or chequered finish, while cork rubber sheets produced of dimensionally stable flexible cork rubberized bonded with nitrile or neoprene rubber. And **gaskets, diaphragm and flanges jointing leakage protection** rubber sheeting are manufactured of single or combination of relevant synthetic rubber compound blended with chemicals vulcanized in Rotocure as well as hydraulic press-cured shock-proof mats steam quality rubber sheets made in India by HIC Universal.

HIC Universal insulating mat and rubber sheets are **Original Choice** by electrical substation equipment and storage solutions manufacturers in India, China, Belgium, UK, Italy, Yemen, Norway, Finland, Chile, Canada, Slovakia, Czech Rep., Venezuela, Trinidad, Colombia, Malaysia, Spain, Netherlands, Ecuador, Mexico USA North America, South Korea, Australia, Philippines, Saudi Arabia, Singapore and other Asian countries.
**RANGE of Rubber Mat Sheets**

**Di-electric Carpet and Gaskets Jointing HIC Sheeting**

- Anti-skid Rubber Electrical Insulating Mat 50 KV current resistant 1m x 2m, 1.2m x 5m size up to 25mm Thick
- Neoprene Sheet 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size up to 50mm Thick
- Nitrile 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size up to 50mm Thick
- Shot Blast 1m x 2m, 1.2m x 2.4m size 4 to 20mm Thick
- EPDM 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size up to 25 mm Thick
- Silicone 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size up to 25 mm Thick
- Viton 1.2m x 2.4m, 1.4m x 10m size 3 to 25 mm Thick
- Hypalon 1.2m x 2.4m, 1.4m x 10m size up to 25 mm Thick
- SBR 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size till 25 mm Thick
- Natural 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size up to 25 mm Thick
- Insertion White Sheet 1m x 2m size 3 to 25 mm Thick
- Cork Sheet 2ft x 3ft size up to 25 mm Thick
- Anti-slip Floor Mat Button Design 1.2m x 10m size 3 to 6 mm Thick
- Horse Mat & Cow Mats 4ft x 6ft size 15 to 25mm Thick
- Skirt-Board Rubber 200mm W x 25 mtr Long size 8 to 20mm Thick
- Rubber Lagging 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size 6.5 to 25mm Thick

**Vendor Data:** [www.hic-india.com](http://www.hic-india.com) | **Customers List:** [www.universaldelhi.org](http://www.universaldelhi.org) | **Catalogue:** [www.rubber-steel-industrial-products.com](http://www.rubber-steel-industrial-products.com)
Switchboard Electrical Insulating Matting as per IEC 61111

10KV/ Class 0, 20KV/ Cl 1, 30KV/ Cl 2, 40KV/ Cl 3, 50KV/ Cl 4  Dielectric Carpet

Electrical Insulating Matting as per Swedish standards IEC 61111 used by manufacturers of X-ray equipment, power plant equipment, control switchboard producers being essential for protection against electrical shock of workers on electrical installations by floor covering with synthetic insulation dielectric mat.

Size dimensions Width and Length manufactured M 1 x 1, 1 x 5, 1 x 10, 1.2 x 5 meter.

Surface Finish dielectric matting cloth impression texture on Top and plain Bottom, Thickness MM 2 to 14, Colour Grey or Black as standard, also in Blue, as per dielectric Class :-

5,000V Proof Voltage, Class 0, 20,000V Withstand Voltage (dielectric), 1000V Max Operating matting

10,000V Proof Voltage, Class 1, 20,000V Withstand Voltage (dielectric), 7500V Max Operating matting

20,000V Proof Voltage, Class 2, 30,000V Withstand Voltage (dielectric), 17000V Max Operating matting

30,000V Proof Voltage, Class 3, 40,000V Withstand Voltage (dielectric), 26500V Max Operating matting

40,000V Proof Voltage, Class 4, 50,000V Withstand Voltage (dielectric), 36000V Max Operating matting
High Voltage Safety Electrical Insulating Mat as per IS 15652

10KV LT control Class A, 22KV HT/B class, 36KV/C class Mats Produced By HIC

**Electrical Insulation Matting** as per IS 15652 used by power plant equipment manufacturers of electrical switchboard equipment, electrical HT or LT control panel boards producers being essential for workmen safety from electrical shocks due to high voltage current by floor covering with synthetic insulation mat flame retardant quality for electrical purposes.

**Size dimensions** **Width** and **Length** manufactured M 1 x 2, 1.2 x 2.4, 1 x 10, 1.2 x 25 meter.

Surface Finish anti-skid aberration marks mat that is, rough surface without edges Top and plain Bottom, Colour Blue or Black as standard, also in Red, Thickness as per Class :-

10KV Ac Proof Voltage, 2 mm Thick, Class A, 30KV Di-electric Strength ac (rms), 240V dc (rms) mat

22KV Ac Proof Voltage, 2.5 mm Thick, Class B, 45KV Di-electric Strength ac (rms), 240V dc (rms) mat

36KV Ac Proof Voltage, 3 mm Thick, Class C, 65KV Di-electric Strength ac (rms), 240V dc (rms) mat
Substation Rubber Mat For Electrical Purpose as per IS 5424

15KV Voltage Tested 6.5mm and above Thick panel board Chequered Mats

Anti skid Rubber Mat for Electrical Purpose as per IS 5424 used by manufacturers of electrical substation equipment, electrical control panel boards, air conditioning plant producers being essential for life safety of workmen from electrical current leakages and short-circuit by floor covering with electrical insulating mat.

Size dimensions Width and Length manufactured M 1 x 2 (standard), 0.9 x 1.8 meters.

Mats Surface Finish anti skid chequered or fluted Top and plain Bottom, Mat Colour Black as standard, also in Red, Mats Thickness MM 6.5, 8, 10, 12, 15, 19, 25 Max.

Av. Tensile Strength (kg/sqcm) 50 kg, Av. Elongation at break 250%, Voltage Test at 15000V for 1 minute with No puncture, insulating mats Breakdown strength > 40,000 Volts, Water Absorption test < 4 mg/sqcm.

Neoprene Rubber Sheeting

Ozone, Gas, Oil and Fire Resistant Chloroprene CR Sheet

Chloroprene rubber sheeting CR compound neoprene rubber sheet gasket material used by manufacturers of defence rubber moulding, air space fuel tank, industrial fire management consultants, fly fishing waders, diving suits, chemical plant machinery producers for advantageous properties being good ozone resistant, impermeable to gas and liquids that acts as a barrier to pass through, resistance to fire and inorganic hydrocarbons, acids alkalis' fair resistance, good bonding to metal and resilience, thus regarded as multi-function rubber sheet diaphragm material for wide industrial sheeting applications.

Size dimensions w x l Meter 1 x 2, 1.2 x 2.4 (standard), 1.2 x 5, 1.2 x 10, 1.4 x 5, 1.4 x 10.

Neoprene Sheeting Roll Thickness MM 1.5 up to 50, Shore A ± 5 Hardness 60, 65, Neoprene Sheeting Color Black, Surface Finish of Neoprene sheet smooth or cloth impression, Specific Gravity ± 5% g/cm³ 1.4, 1.45.

Neoprene sheeting Av. Tensile Strength MPa 9, Av. Elongation at break % 350, and Compression Set % at 70 deg. 45, Neoprene sheeting Temperature resistance range °C -30, + 100.
Nitrile Rubber Sheeting

**Petroleum, Oil and Inorganic Chemicals Resistant NBR Sheet**

Nitrile rubber sheeting is NBR compound nitrile rubber sheet gasket material used by manufacturers of electrical transformers, chilled water pipeline insulation contractors, oil drilling contractors, food and beverage equipment producers, for advantageous properties of nitrile rubber sheet gasket for flanges sealing being petroleum oil and vegetable-animal oil resistant, impermeable to gas, resistance to inorganic chemicals products except chlorine, good resilience, thus regarded as oil resistant rubber sheet seal material for wide industrial gasket applications.

**Size dimensions** 1 x 2 m, 1.2 x 2.4 (standard), 1.2 x 5 m, 1.2 x 10 m, 1.4 x 5 m, 1.4 x 10 m.

**Nitrile Sheeting Thickness** MM 1.5 up to 50, **Shore A ± 5 Hardness** 60, 65, **Nitrile Sheeting Color** Black, Off-White, Red **Surface Finish of Nitrile Sheet** smooth or one side cloth impression, 1 ply nylon fabric insertion, 2 ply cloth reinforced, **Specific Gravity ± 5% g/cm³** 1.45, 1.50.

**Nitrile Sheet Av. Tensile Strength** MPa 7, **Av. Elongation at break %** 300, **Compression Set %** at 70 deg. 30, **Nitrile Sheeting Temperature Resistance range °C** -30, + 110, **Nitrile Sheeting Change in Volume %** when dipped in ASTM oil no.3 at 70°C for 72 hrs. 15.

Viton Rubber Sheeting

**Biodiesel Fuel, Chemical, Flame, Ultra Heat Resistant till 300°C FKM Sheet**

Viton rubber sheeting is FKM compound fluoro elastomer rubber sheet gasket material used by manufacturers of moulded rubber products for defence and aviation, petroleum refinery contractors, alkaliies chemicals plant producers, for advantageous properties of viton rubber sheet gaskets for flanges sealing being excellent resistance to biodiesel fuel based on animal fat or vegetable oil and self-extinguishing flame resistant, lubricating oils and petrol resistant, impermeable to gas, resistance to ozone and oxidation, thus regarded as chemical resistant and ultra-heat resistant for long term heat exposure without brittleness rubber-sheet packing material for wide industrial seal applications.

**Size dimensions** 1 x 2 m, 1.2 x 2.4 (standard), 1.2 x 5 m, 1.2 x 10 m, 1.4 x 5 m, 1.4 x 10 m.

**Viton Sheeting Thickness** MM 1.0 up to 25, **Shore A ± 5 Hardness** 70, **Viton Sheeting Color** Black, **Surface Finish of Viton Sheet** smooth or one side cloth impression, **FKM Specific Gravity ± 5% g/cm³** 1.95, **Viton Sheeting Av. Tensile Strength** MPa 7, **Av. Elongation at break %** 200, **Compression Set %** at 70 deg. 45, **Viton Sheeting Temperature Resistance range °C** -30, + 300.
EPDM Rubber Sheeting

Outdoor Weather, Steam, Acid & Corrosive Chemicals Resistant EPDM Sheet

EPDM rubber sheeting ethylene propylene diene monomer compound EPDM rubber sheet roofing material used by manufacturers of roofing materials, drinking water pipeline contractors, marine flooring rubbers EPDM sheet roll type producers, for advantageous properties being resistant to outdoor weather, fresh and sea water, excellent resistance to ultra violet, aging-ozone and oxidation, good resistance to steam, acids and many corrosive chemicals, impermeable to gas, thus regarded as all-weather resistant rubber sheet strip material for outdoor and wide industrial packing applications.

**Size dimensions** w x l Meter 1 x 2, 1.2 x 2.4 (standard), 1.2 x 5, 1.2 x 10, 1.4 x 5, 1.4 x 10.

**EPDM Sheet Thickness** MM 1.0 up to 50, **Shore A ± 5 Hardness** 65, 70 **EPDM Color** Black, Off-White, **Surface Finish of EPDM Sheets** smooth or one side cloth impression, **EPDM Sheeting Specific Gravity ± 5% g/cm³** 1.25.

**EPDM Sheet Av. Tensile Strength** MPa 6.5, **Av. Elongation** at break % 250, **Compression Set %** at 70 deg. 25, **EPDM Sheet Temperature** resistance range °C -45, + 140.
Silicone Rubber Sheeting

Hot Temp. >200°C Resistant, Oxidation Apt for Pharma and FDA Food MQ Sheet

Silicone rubber sheeting MQ compound physiologically inert rubber sheet sealing material food grade used by manufacturers of pharmaceutical machinery, electrical insulating board, building construction contractors, food and medical equipment producers, for advantageous properties being resistant to ozone, oxidation, UV, corona discharge and cosmic radiation, excellent resistance to dry air hot temperature above 200 deg. C intermittent, good electrical insulation with dielectric strength 500 V/mil, good resistance to animal and vegetable oils including diluted acids, displays low smoke toxicity and low in flammability, thus regarded as thermally stable super heat resistant rubber sheet packing material for medical equipment, food and drink machines industry and electronics industries wide sealing applications.

Size dimensions w x l Meter 1 x 2, 1.2 x 2.4 (standard), 1.2 x 5, 1.2 x 10, 1.4 x 5, 1.4 x 10.

Silicone Sheet Thickness MM 1.0 up to 25, Shore A ± 5 Hardness 50, 60 Silicone Sheet Color Red, Blue, Black, Translucent Off-White (Food Grade Quality), Surface Finish of Silicone Sheet smooth or one side cloth impression, Silicone Sheet Specific Gravity ± 5% g/cm³ 1.20.

Silicone Sheet Av. Tensile Strength MPa 8, Av. Elongation at break % 250, Compression Set % at 70 deg.40, Silicone Sheet Temperature resistance range °C -70, +230.

Styrene Butadiene Rubber SBR Sheeting

High Abrasion, Ageing, Hot Water Resistant till 120°C SBR Sheet

SBR rubber sheeting styrene butadiene compound abrasion resistant sheet gasket and sealing material used by manufacturers of mining equipment, water sewage manhole, tile making machinery, shot blasting equipment producers, for advantageous properties being resistant to high abrasion and temperature, excellent resistance to ageing superior to RMA natural, fair resistance to many inorganic chemical products, thus regarded as abrasion and hot water resistant sealing material for mining industry and wide industrial gasket and sealing applications.

Size dimensions w x l Meter 1 x 2, 1.2 x 2.4 (standard), 1.2 x 5, 1.2 x 10, 1.4 x 5, 1.4 x 10.
**SBR Sheeting Thickness** MM 1.5 up to 40, **Shore A ± 5 Hardness** 65, 70 **SBR Sheet Color** Black, Red, Off-White **Surface Finish of SBR Sheeting** smooth or one side cloth impression, **SBR Sheet Specific Gravity** ± 5% g/cm³ 1.20.

SBR Sheet Av. Tensile Strength MPa 8, **Av. Elongation at break %** 350, **Compression Set %** at 70 deg. 35, **SBR Sheeting Temperature** resistance range °C -40, + 110.

---

### Shot Blasting Natural Rubber Sheeting

**Impact, Abrasion & Water Resistant RMA Sheet**

Natural rubber sheeting NR compound impact-resistant rubber sheet packing material used by manufacturers of aggregate crusher plant, shooting range construction engineering consultants, shot blasting machine producers, for advantageous properties being excellent resistant to high impact and abrasion, good resistance to water, low compression set and outstanding resilience, thus regarded as general purpose abrasion resistant water-proof sealing material for mine crushers and wide industrial packing applications.

**Size dimensions** w x l Meter 1 x 2, 1.2 x 2.4 (standard), 1.2 x 5, 1.2 x 10, 1.4 x 5, 1.4 x 10.

Natural RMA Sheeting Thickness MM 1.5 up to 50, **Shore A ± 5 Hardness** 5, 50, 60, 65 **Natural RMA Sheet Color** Black, Red, Off-White, **Surface Finish of Natural Sheeting** smooth or one side cloth impression, **Natural RMA Sheeting Specific Gravity** ± 5% g/cm³ 1.40.

Natural RMA Av. Tensile Strength MPa 8, 12, 15, 17 **Av. Elongation at break %** 400, 450, 500, **Compression Set %** at 70 deg. 30, **RMA Natural Sheet Temperature** resistance range °C -25, + 65.
Insertion Rubber NR/SBR Sheeting

Steam Pressure & Tear Resistant Flange Gasket Sealing Cloth Ply Sheet

Cloth Inserted Ply rubber sheeting SBR Natural rubber blended compound steam resistant rubber sheet gaskets for flanges sealing used by manufacturers of strip curtains, flange gasket material producers, for advantageous properties being excellent resistant to tear and steam pressure, good dimensional stability and superb resilience, thus regarded as steam quality tear resistant flange rubber gasket for wide industrial diaphragm sheeting applications.

**Size dimensions** w x l Meter 1 x 2, 1.2 x 2.4 (standard), 1.2 x 5, 1.2 x 10, 1.4 x 5, 1.4 x 10.

**Cloth Inserted Sheet Thickness** MM 1.5 up to 20, Shore A Hardness ± 5 55, 60, 65, 70 Inserted Sheet Colour Black, Red, Off-White, Surface Finish of inserted sheet smooth or one side cloth impression, Ply Insertion Sheetin Specific Gravity ± 5% g/cm³ 1.40.

Nylon Inserted Diaphragm Sheeting Av. Tensile Strength MPa 8, 12, 15, 17 Av. Elongation at break % 400, 450, 500 Compression Set % at 70 deg. 30, Cloth Inserted Sheet Temperature resistance range ºC -30, + 70.

Butyl Rubber Sheeting

**Phosphoric Acid, Gas, Caustic Soda & Alkali Resistant IIR Sheet**

Butyl rubber sheeting IIR compound vibration damping rubber lining material used by manufacturers of smelting equipment, alumina refinery consultants, tank linings coatings contractors, gas pipeline producers, for advantageous properties being excellent resistance to phosphoric acid, caustic soda as well as aqueous acid (s), superb resistance to sunlight, oxidation and ozone, thus regarded as anti acid and alkali resistant corrosion sealing sheeting for chemicals industry and wide industrial applications.

**Size dimensions** w x l Meter 1 x 2, 1.2 x 2.4 (standard), 1.2 x 5, 1.2 x 10, 1.4 x 5, 1.4 x 10.

**Butyl lining Thickness** MM 1.5 up to 15, Shore A ± 5 Hardness 55, 60, 65 Butyl Sheeting Color Black, Surface Finish of Butyl lining smooth or one side cloth impression, Butyl Sheet Specific Gravity ± 5% g/cm³ 1.35.

**Butyl Rubber Roll Av. Tensile Strength** MPa 6, Av. Elongation at break % 250, Compression Set % at 70 deg. 40, Vibration Damping Butyl Sheet Temperature resistance range ºC -40, + 125.

Cork Sheet Nitrile or Neoprene Rubberized

**Thermal Insulator apt for Power Transformer & Automobile Rubber Bonded Cork**

**Rubberized Cork sheet** Nitrile rubber bonded acoustic insulation rubber sheet gasket material used by manufacturers of automobile engine head, power transformer, water piping contractors, electrical switchgears producers, for advantageous properties being excellent resistance to oil that can compress without lateral spread, superb dimensional stability that can recover up to 80% of its original thickness, oxidation and ozone, thus regarded as non-swelling thermal insulator cork sheet for electrical industry and wide automotive as well as thermal insulation applications.

**Size dimensions** \( w \times l \) Meter 0.6 x 0.9.

**Rubberized Cork Sheet Thickness** MM 3 up to 25, **Cork Sheet Rubber Bonded Shore A ± 5 Hardness** 50, 70, 80, Compressibility at 28 Kg/cm\(^2\) 45 to 60, 35 to 50, 15 to 25.

**Rubber Bonded Cork Gasket Sheet Av. Tensile Strength** MPa 6, 12, 19 **Volume change after immersion in ASTM Oil No.3 for 70 hours at 100\(^\circ\)C Temp.**% 40, 25, 15, **Compression Set %** at 70 deg. 80, 85, 90, **Recovery %** Min. 80 **Dimensional change %** Max.1.5, **Rubberized Cork Sheets Temperature** resistance range \(^\circ\)C -30, + 110.

Hypalon Rubber Sheeting

**Inorganic Chemicals & Corrosive Acid Resistant CSM Sheet**

**Hypalon rubber sheeting** CSM compound chemical resistant rubber sheet seal material used by manufacturers of chemical acid plant, acid waste drainage piping contractors, automotive chemicals producers, for advantageous properties being excellent resistance to most inorganic dilute or concentrated acids or chemicals at very low and high temperatures, superb resistance to ozone and oxygen, good dielectric and low moisture absorbing features, moderate oil and grease resistant, thus regarded as anti-acid and corrosive chemical resistant rubber sheet for chemicals industry and wide industrial applications.

**Size dimensions** \( w \times l \) Meter 1 x 2, 1.2 x 2.4 (standard), 1.2 x 5, 1.2 x 10, 1.4 x 5, 1.4 x 10.

**Hypalon Sheet Thickness** MM 1 up to 12, **Hypalon Rubber Gasket Sheet Shore A ± 5 Hardness** 60, 65 **Hypalon Sheet Gasket Color** Black, **Surface Finish of Hypalon Seal Material** smooth or one side cloth impression, **Specific Gravity ± 5%** g/cm\(^3\) 1.40.
Hypalon Gasket Packing Avg. Tensile Strength MPa 10, Avg. Elongation at break % 350, Compression Set % at 70 deg. 40, Hypalon Sheeting Temperature resistance range °C -60, +150.

Order Quantity Minimums

**Numbers or Square meter length of HIC Rubber Matting Sheet Supplied**

Electrical Insulating Mats, High Voltage Safety Insulating Mats, Substation Flooring Electrical Mats, Switchboard Dielectric Matting, Minimum order quantity in one rubber mat quality variety type Thickness sizes or single size NUMBERS 10 or SQ. METERS 20.

Packed in rolls in sea-worthy jute or HDPE covered.

Rubber Sheet minimum order quantity in single thickness size and rubber grade NUMBERS 06 or SQ. METERS 12.
Nomenclature of Insulating Matting as per IEC 61111
Thickness of Dielectric Carpet, Size of Fine Ribbed Rubber Mat: Technical Data

---

### ELECTRICAL INSULATING MATTING TECHNICAL SPECIFICATIONS: MADE IN INDIA * HIC

<table>
<thead>
<tr>
<th>Thickness of Electrical Insulation Matting</th>
<th>IEC 61111:2009 / BS EN 61111:2009 Specification</th>
<th>Dielectric Test Voltage When New</th>
<th>Working Voltage (Nominal Maximum Use)</th>
<th>Surface Proof Test Voltage</th>
<th>Weight (Approx.) Kilograms per Square Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>3mm</td>
<td><strong>Class 0</strong> (Low Voltage, substitute of BS921 650V)</td>
<td>10kV (10,000V)</td>
<td>1,000V</td>
<td>5,000V</td>
<td>3.70 kg/m²</td>
</tr>
<tr>
<td>3.5mm</td>
<td>Class 1</td>
<td>20kV (20,000V)</td>
<td>7,500V</td>
<td>10,000V</td>
<td>6.10 kg/m²</td>
</tr>
<tr>
<td>4.0mm, 6mm</td>
<td><strong>Class 2</strong></td>
<td>30kV (30,000V)</td>
<td>17,000V</td>
<td>20,000V</td>
<td>5.00 kg/m², 7.5 kg/m²</td>
</tr>
<tr>
<td>4.0mm, 6mm</td>
<td><strong>Class 3</strong></td>
<td>40kV (40,000V)</td>
<td>26,500V</td>
<td>30,000V</td>
<td>5.0 kg/m², 7.5 kg/m²</td>
</tr>
<tr>
<td>4.0mm, 6mm</td>
<td><strong>Class 4</strong></td>
<td>50kV (50,000V)</td>
<td>36,000V</td>
<td>40,000V</td>
<td>7.0 kg/m², 10.5 kg/m²</td>
</tr>
</tbody>
</table>

---

**Standard Sizes** of Heavy Duty Switchboard Mats manufactured (Width x Length): 914mm (3ft) x 1.8meter (6ft), 1000mm (1meter) x 2m, 1m x 5m, 1m x 10m, 1.2m x 2m, 1.2m x 5m and other sizes on request. Other thickness’s also produced.

**Color** of mat: Black or Grey / coding color as per Class for easy identification.

**Electrical-safety mats** are not intended to be used as “Hot” Rail Blanket and, should be borne in mind, “Not to Place Insulating Matting in Service or Use with Cracks or Punctures” as can be dangerous in the event of electrical current leakage.

*** Third Party Inspection from an independently accredited India Test Facility, like by ERDA, CPRI, or other Govt. approved laboratory test certificate can be provided for electrical matting on Extra charges to be directly reimbursed by buyer.
### Nomenclature of Electrical Insulating Mats as per IS 15652

**Thickness of Anti-slip Aberration Marks Rubber Mat, Size of High Voltage Insulation Mat: Technical Data**

#### Electrical Insulating Mat Technical Specifications: Made in India * HIC

<table>
<thead>
<tr>
<th>Thickness of Safety Rubber Matting</th>
<th>IS 15652 / 2006 Specification</th>
<th>Dielectric Test Voltage When New</th>
<th>Working Voltage (Nominal Use)</th>
<th>Surface Proof Test Voltage</th>
<th>Weight (Approx.) Kilograms per Square Meter #</th>
</tr>
</thead>
<tbody>
<tr>
<td>2mm</td>
<td>Class A</td>
<td>30kV (30,000V)</td>
<td>3,300V</td>
<td>10,000V</td>
<td>2.90 kg/m²</td>
</tr>
<tr>
<td>2.5mm</td>
<td>Class B</td>
<td>45kV (45,000V)</td>
<td>11,000V</td>
<td>22,000V</td>
<td>3.60 kg/m²</td>
</tr>
<tr>
<td>3mm</td>
<td>Class C</td>
<td>65kV (65,000V)</td>
<td>33,000V</td>
<td>36,000V</td>
<td>4.70 kg/m²</td>
</tr>
<tr>
<td>3.5mm * Omitted from IS 15652</td>
<td>Class D</td>
<td>110kV (110,000V)</td>
<td>66,000V</td>
<td>70,000V</td>
<td>-</td>
</tr>
</tbody>
</table>

**HIC Quality Testing Also Features:**

- **High Electrical Insulation Resistance** 10,00,000 Mega Ohms when measured with 500 v Megger
- **Fire Retardant** < 5 seconds blue flame extinguished when tested after removal
- **Leakage Current** to 10 MA at 65 kV tested 100% Shockproof high voltage resistant mat

**Standard Sizes** of Switchboard Matting manufactured (Width x Length): 900mm (3ft) x 1.8meter (6ft), 1000mm (1meter) x 2m, 1m x 5m, 1m x 10m, 1m x 20m, 1.2m x 2m, 1.2m x 5m, 1.2m x 10m and other sizes on request.

For special outdoor application use, high voltage insulation mats can also be supplied with higher thickness subject to single maximum roll length of 5m / 10 meters.

**Color** of mat: Black / Blue / Red with Marking as to Roll No., Class, Manufacturing Date, Manufacturer’s Identity i.e. HIC Universal.

*** Third Party Inspection from an independently accredited India Test Facility, like by ERDA, CPRI, or other Govt. approved laboratory test certificate can be provided for electrical matting on Extra charges to be directly reimbursed by buyer.
Nomenclature of Switchboard Matting as per ASTM D178

Thickness of Corrugated Rubber Mat, Size of Non Conductive Mats: Technical Data

<table>
<thead>
<tr>
<th>Thickness of Safety Rubber Mat</th>
<th>ASTM D178-01 TYPE I / ANSI JS.7 Specification</th>
<th>Dielectric Test Voltage When New</th>
<th>Working Voltage (Nominal Maximum Use)</th>
<th>Surface Proof Test Voltage</th>
<th>Weight (Approx.) Kilograms per Square Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5mm (3/16&quot;)</td>
<td>Class 1</td>
<td>20kV (20,000V)</td>
<td>7,500V</td>
<td>10,000V</td>
<td>6.80 kg/m²</td>
</tr>
<tr>
<td>6mm (1/4&quot;)</td>
<td>Class 2</td>
<td>30kV (30,000V)</td>
<td>17,000V</td>
<td>20,000V</td>
<td>8.50 kg/m²</td>
</tr>
<tr>
<td>9mm (3/8&quot;)</td>
<td>Class 3</td>
<td>40kV (40,000V)</td>
<td>26,500V</td>
<td>30,000V</td>
<td>9.20 kg/m²</td>
</tr>
<tr>
<td>12mm (1/2&quot;)</td>
<td>Class 4</td>
<td>50kV (50,000V)</td>
<td>36,000V</td>
<td>40,000V</td>
<td>9.50 kg/m²</td>
</tr>
</tbody>
</table>

**Standard Sizes** of Switchboard Matting manufactured (Width x Length): 900mm (36inch) x 9meter (30ft), 1000mm (1meter) x 1m, 1m x 2m, 1.2m x 2m and other sizes on request.

**Color** of mat: Black / Yellow coding
# Nomenclature of High Voltage Rubber Mat as per IS 5424

*Thickness of Chequered Electrical Rubber Mat, Size of Insulating Mats: Technical Data*

![High Voltage Electrical Rubber Mat](image)

<table>
<thead>
<tr>
<th>Thickness of Insulation Rubber Mat</th>
<th>IS 5424:1969 / BS:921 Specification</th>
<th>Dielectric Test Voltage When New</th>
<th>Working Voltage (Nominal Maximum Use)</th>
<th>Surface Proof Test Voltage</th>
<th>Weight (Approx.) Kilograms / Square Meter per 1MM Thick #</th>
</tr>
</thead>
<tbody>
<tr>
<td>6mm, 8mm, 10mm, 12mm, 15mm, 19mm, 25mm</td>
<td>May be substituted with Class 0 of IEC 61111 and Class A of IS 15652</td>
<td>&gt;40kV (40,000V)</td>
<td>3,300V</td>
<td>15,000V</td>
<td>1.00 kg/m²</td>
</tr>
</tbody>
</table>

**Standard Sizes** of Electrical Insulating Floor Mats manufactured (Width x Length): 1000mm (1meter) x 2m normal standard dimension, 900mm (3ft) x 1.8meter (6ft), 1.2m x 2.4m.

**Color** of mat: Black / Red with Marking as to Roll No., Manufacturer's Identity i.e. HIC Universal.

---

# Nomenclature of Rubber Sheet

**Thickness, Size for Gasket Material without Fabric & Cloth Insertion Sheeting for Diaphragms: Technical Data**

<table>
<thead>
<tr>
<th>Rubber Sheet Gasket Material</th>
<th>Thickness (mm)</th>
<th>Size (width x length)</th>
<th>Color and Finish</th>
<th>Shore Hardness ‘A’</th>
<th>Specific Gravity gm/cm³</th>
<th>Physical Av. Tensile Strength (MPa)</th>
<th>Properties Av. Elongation (%)</th>
<th>Compression Set % at 70°C for 22 hrs. AND Temp. Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NEOPRENE (CR)</strong></td>
<td>1.5 to 50</td>
<td>1mx  2m</td>
<td>BLACK</td>
<td>60 to 75</td>
<td>1.4 (100% CR)</td>
<td>6, 7, 10, 12, 15</td>
<td>350</td>
<td>45 (-)30°C (+)100°C</td>
</tr>
<tr>
<td></td>
<td>1m x 5m</td>
<td>1.2mx2.4m</td>
<td>Smooth (standard) or Cloth Impression (1 side or Both) Reinforced Nylon ply 1or 2 (optional)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.2mx10m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Fire, Ozone, Gas, Oil Resistant Multi-function Chloroprene Rubber Sheeting Diaphragm material**

**Petroleum, Vegetable & Animal Oil Resistant, Impermeable to Gas Acrylo nitrile Butadiene Rubber Sheeting Seal material**

<table>
<thead>
<tr>
<th>NITRILE (NBR)</th>
<th>1.5 to 50</th>
<th>1mx 2m</th>
<th>BLACK, RED, OFF-WHITE Smooth (standard) or Cloth Impression (1 side or Both) Reinforced Nylon ply 1or 2 (optional)</th>
<th>60 to 65</th>
<th>1.45 (100% NBR)</th>
<th>7, 10</th>
<th>300</th>
<th>30 (-)30°C (+)110°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1m x 5m</td>
<td>1.2mx2.4m</td>
<td></td>
<td></td>
<td>1.50 (65% NBR)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.2mx10m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Nomenclature of Rubber Sheet

<table>
<thead>
<tr>
<th>Rubber Material</th>
<th>Thickness (mm)</th>
<th>Size</th>
<th>Color, Finish</th>
<th>Shore Hardness</th>
<th>Specific Gravity</th>
<th>Tensile Strength</th>
<th>Elongation %</th>
<th>Comp % &amp; Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemical, Flame, Ultra Heat Resistant</strong> Fluoro Elastomer Rubber Sheeting Gasket and Washer material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VITON (FKM)</td>
<td>1.0 to 25</td>
<td>1mx 2m</td>
<td>BLACK, Smooth (standard)</td>
<td>70 to 75</td>
<td>1.95</td>
<td>7</td>
<td>200</td>
<td>45 (-30°C (+300°C)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1m x 5m</td>
<td>Smooth (Cloth Impression (1 side))</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2mx2.4 m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2mx10m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Corrosive Chemicals, Steam, Outdoor Weather Resistant</strong> Ethylene Propylene Rubber Sheeting Roofing and Packing material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPDM</td>
<td>1.0 to 50</td>
<td>1mx 2m</td>
<td>BLACK, OFF-WHITE Smooth (standard)</td>
<td>65, 70</td>
<td>1.25</td>
<td>6.5</td>
<td>250</td>
<td>25 (-45°C (+140°C)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1m x 5m</td>
<td>Smooth (Cloth Impression (1 side))</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2mx2.4 m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2mx10m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Thermally Stable, Oxidation &amp; Hot Temperature Resistant Food Grade</strong> MQ Rubber Sheeting Pharma Seal material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SILICONE (MQ)</td>
<td>1.0 to 25</td>
<td>1mx 2m</td>
<td>RED, BLUE, BLACK, TRANSLUCENT (OFF-WHITE) Food quality as per FDA Smooth (standard)</td>
<td>50, 60</td>
<td>1.20</td>
<td>8</td>
<td>250</td>
<td>40 (-70°C (+230°C)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1m x 5m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2mx2.4 m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2mx10m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Nomenclature of Rubber Sheet

<table>
<thead>
<tr>
<th>Rubber Material</th>
<th>Thickness (mm)</th>
<th>Size</th>
<th>Color, Finish</th>
<th>Shore Hardness</th>
<th>Specific Gravity</th>
<th>Tensile Strength</th>
<th>Elongation %</th>
<th>Comp % &amp; Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ageing, Hot Water, Abrasion Resistant</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBR (Commercial sbr1502)</td>
<td>1.5 to 40</td>
<td>1m x 2m, 1m x 5m, 1.2mx2.4m, 1.2mx10m</td>
<td>BLACK, RED, OFF-WHITE, Smooth (standard) or Cloth Impression (1 side or Both) Nylon Cloth Insertion ply 1 or 2 (optional)</td>
<td>65, 70</td>
<td>1.20</td>
<td>8</td>
<td>350</td>
<td>(-)35°C, (+)110°C</td>
</tr>
<tr>
<td><strong>Impact, Water &amp; Abrasion Resistant</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RMA General Purpose</td>
<td>1.5 to 50</td>
<td>1m x 2m, 1m x 5m, 1.2mx2.4m, 1.2mx10m</td>
<td>BLACK, RED, OFF-WHITE, Smooth (standard) or Cloth Impression (1 side or Both) Nylon or Cotton Fabric Inserted ply 1 or 2 (optional)</td>
<td>45, 50, 60, 65</td>
<td>1.40</td>
<td>8, 12, 15, 17</td>
<td>400, 450, 500</td>
<td>30</td>
</tr>
<tr>
<td><strong>Transformer Oil Resistant, Thermal &amp; Acoustic Insulation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CORK RUBBER (NITRILE)*</td>
<td>3.0 to 25</td>
<td>0.6mx0.9m</td>
<td>NATURAL BROWN, BLACK, Smooth (standard)</td>
<td>50, 70, 80</td>
<td>Vol. Change% ASTM oil dipped at 100°C: 40, 25, 15</td>
<td>6, 12, 19</td>
<td>-</td>
<td>80, 85, 90</td>
</tr>
</tbody>
</table>

---

**Vendor Data:** [www.hic-india.com](http://www.hic-india.com) | **Customers List:** [www.universaldelhi.org](http://www.universaldelhi.org) | **Catalogue:** [www.rubber-steel-industrial-products.com](http://www.rubber-steel-industrial-products.com)
## Nomenclature of Rubber Sheet

<table>
<thead>
<tr>
<th>Rubber Material</th>
<th>Thickness (mm)</th>
<th>Size</th>
<th>Color, Finish</th>
<th>Shore Hardness</th>
<th>Specific Gravity</th>
<th>Tensile Strength</th>
<th>Elongation %</th>
<th>Comp % &amp; Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phosphoric Acid, Alkali, Caustic Soda Resistant</strong> Butyl Rubber Sheet Lining and Corrosion Sealing material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>BUTYL (IIR)</strong></td>
<td>1.5 to 15</td>
<td>1mx 2m</td>
<td>BLACK Smooth (standard) or Cloth Impression (1 side)</td>
<td>55, 60, 65</td>
<td>1.35</td>
<td>6</td>
<td>250</td>
<td>40 (-)40°C (+)125°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1m x 5m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2mx2.4m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2mx10m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Corrosive Acid &amp; Inorganic Chemicals Resistant</strong> CSM Rubber Sheeting Gasket and Seal material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HYPALON (CSM)</strong></td>
<td>1.0 to 12</td>
<td>1mx 2m</td>
<td>BLACK Smooth (standard) or Cloth Impression (1 side)</td>
<td>60, 65</td>
<td>1.40</td>
<td>10</td>
<td>350</td>
<td>40 (-)60°C (+)150°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1m x 5m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2mx2.4m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2m x 10m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

# Manufacturing Tolerances shall be deemed to be acceptable by buyers'.
Size Tol. ±1% ; Thickness Tol. ±2.5% ; S.G. Tol. ±10%

### Commercial Grade SBR/NR rubber with Cloth Insertion for dimensional stability & resistant to steam pressure And without fabric reinforcement in different specific gravities quality produced on bulk order quantities.

#### Neoprene Rubber Bonded Cork Sheet is also produced on request.

* Manufacture of Neoprene Rubber Cords, Silicon Rubber Cords also undertaken.

Disclaimer: Information's, written and verbal are provided by HIC, relative to its products which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of UNIVERSAL brand industrial products should determine for itself the suitability of such products.

Selection of Rubber Sheet

Gasket, Seal, Floor Covering, Flange Jointing HIC Sheeting Guide *

Follow simple steps for as to How to select rubber sheet, insulating mat and insertion sheeting for gasket, seal, floor covering, flange jointing materials:-

**Step 1 of HIC Universal rubber sheet Selection:**

**Elastomer Rubber Compound Grade of sheeting selection** - Rubber compounded sheet material grade be wisely selected considering exposure to weather conditions, heat-temperature degrees, oils, fuels, chemicals, etc. to sustain without failure else may cause leakage or other serious damages to gaskets or seals if inappropriate sheeting grade is chosen.

**Step 2 of HIC Universal sheeting Selection:**

**Thickness of sheeting choice** - Choose minimum thickness of 1.5 mm and above of rubber-sheet to be die-cut to made to gaskets or seal or diaphragm material. Try to accommodate sheeting of little higher thickness for better service performance for a longer period.

**Step 3 of HIC Universal sheeting Selection:**

**Size as to Width and Length of rubber-sheet** - Sizes standard width and length of rubber sheets manufactured are 1m W x 2m L, 1.2m x 2.4m. Sheet dimensions of 1.2m x 5m, 1.2m x 10m, 1.4m x 5m, 1.4m x 10m and other sizes also produced for large quantities.

**Step 4 of HIC Universal sheeting Selection:**

**Shore A Hardness of rubber sheeting** - Shore A Hardness subject to ± 5 tolerance of sheeting 60 to 70shore hardness is generally used for protection against high abrasion and impact, 50 to 55 durometer hardness rubber sheet for diaphragm energy sealing material like oil, gas, petroleum, 40 to 45 shore hardness softer rubbers for corrosion and abrasion control in slurry, lining of pipe work, launders, tanks, other mine site applications.

**Step 5 of HIC Universal sheeting Selection:**

**Ply Cloth Insertion sheeting or Pure gum sheet** - Fabric inserted rubber sheet for high tear resistance reinforced with single or double ply nylon fabric insertion sheet jointing suitable for air and water pressure and for use as diaphragms sheet for oil, LPG, solvent, control valves, pumps, flange jointing for creating differential pressures OR pure gum sheet with no cloth insertion, be selected and specified that shall be custom-manufactured.
Step 6 of HIC Universal sheeting Selection:

**Colour of rubber sheeting** – Black colour sheet as standard manufactured, besides Blue, Red, Grey, White Food Grade Quality and others be specified.

Step 7 of HIC Universal rubber sheet Selection:

**Surface Finish of rubber sheets** – Smooth surface finish sheeting, Cloth Impression finish rubber sheet, Chequered finish electrical mat, Calendared finish sheet, flat Matte finish sheeting rolls be specified. Sizes 1m W x 2m L, 1.2m x 2.4m are produced in moulded press finish.

*check Disclaimer, please*
Purchase Enquiry Info

**Insulating Rubber Mat and Synthetic Rubber Sheet**  
**Min. Information to Be Sent**

(Email at: belts@universaldelhi.org ; universal@hic-india.com or Call +91 11 2874 5120)

HIC ships electrical insulating mat rubber sheets seal gasket material conforming IEC 61111, IS 5424, IS 15652, IS 5192 tailor-made to buyer’s order specifications to different countries including India. Please send following information in English to quote prices:

1. Matting or Sheeting Rubber compound name **Grade**
2. Rubber sheeting or mat **Thickness**, MM
3. Rubber sheet **Size**, w x l, Meter
4. **Hardness** Shore A, if any specific
5. **Pure** rubber or 1-2 ply cloth **Insertion** sheet
6. **Colour**, Black standard or any specific blue, red, grey, white
7. **Surface Finish**, smooth or cloth impression or calendared long length rough
8. **Quantity**- Numbers or Square Meters

**Shipment Handling and Delivery Time**

Bulk quantity orders are packed in sea-worthy jute or HDPE in Rolls shipped via sea in less than container loads (LCL) /FCL or by air. Sea freight (BL) or Air freight (AWB) charges payable at destination.

Small orders are shipped overseas via DHL or FedEx or Aramex courier, for which your Authorization Account number be sent to be booked on “Freight To Collect” basis, together with complete acceptable physical address and phone or mobile number.

**Domestic orders** are dispatched to any destination in India by Road Transport, Gati or TCI or ARC or Jaipur Golden on COD basis.

**Shipping Time**, generally within 3-4 weeks or as stipulated in quote and accepted order.
Industrial supply manufacturing company having dedicated team of 63 skilled work forces includes Rubber Technologist, Chemists, Engineers and Skilled Labor’s, Management Experts viz., Plant Manager, Quality Control Inspector, Lab In charge and I.T specialists. Majority of operations are automatic.

### Production Capacity of Rubber Sealing Products

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Approximate Qty. per annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rubber Sheet, Rubberized Cork Sheet, Floor Insulation Mat</td>
<td>1,80,000 kgs.</td>
</tr>
<tr>
<td>Skirt Board Rubber</td>
<td>50,000 Mtrs</td>
</tr>
<tr>
<td>Rubber Lagging Diamond Grooved</td>
<td>45,000 numbers</td>
</tr>
</tbody>
</table>

Visakhapatnam Steel Plant (721354), NALCO (3072), Subhash Projects (EM-10.18), Heavy Engg. Corp.(6003), Bokaro Steel (72621), Salem Steel(000155), Gujarat State Road(000118), ACC (944), Army Base(512/ABW-LP/76), NTPC(H8267), etc.

* Price List & terms on specific enquiry please.
Quality Assurance Plan

**HIC Rubber Mat & Sheeting Testing Parameters**

Quality rubber sheets and insulating mats manufactured in ISO 9001 certified HIC factories in India with Production Supervisors conducting routine pre-manufacture checks and post-manufacture tests as to:

- 100% Physical checks with respect to dimensions,
- 100% Chemical checks w.r.t. MOC,
- 20% Random physical tests

**Test Certificate & Warranty**

**HIC Manufacturer’s Lab TC of Insulating Mat & Rubber Sheet Supplied**

Quality insulating mats for electrical purpose and rubber sheet gaskets conforming IS 15652, IS 5424, IEC 61111, BS 921, IS 638, IS 5192, ISO 6179, ASTM D1330, BS 2751, BS 2752, DIN 32676, IS 2751, ASTM F104, ISO 7322 - HIC manufacturers modern in-house Lab Test Certificate issued with respect to Thickness MM, Dimensions size Meter, Surface Finish, Polymer or blend Name, Tensile Strength, Elongation, Hardness Shore A, Di-electric and Thermal properties Test (for insulating mats only), besides other tests such as Compression Set, Accelerated Ageing etc.

Warranty of one year against any manufacturing defects in HIC manufactured rubber sheet mats product.

**Third Party Inspections** by DNV, RITES, EIL, QSS, SGS, also arranged in HIC’s rubber sheets factory or by Government Approved Laboratory, Test Certificate issue fee charges directly reimbursed by buyers.

**Legalization** by Embassy or Chambers of Commerce **Attestation** of export shipping Invoice and other documents also provided towards export of Indian Origin sheet gasket material and insulating mats product if demanded on actual fee remitted by importers directly to HIC and or cost added up in Invoice.
Manufacturing & Testing Equipments

Exporters-Importers of industrial products having latest manufacturing machinery and advanced testing equipments.

Belt Press

Rubber Products Production Machinery

Banbury Rubber Mixer, Dispersion Kneader(s), Mixing Mill(s) 2 Roll, Calander Machine (3Roll), Jointing Machine, Rubber Bale Cutter, Hydraulic Presses (2 daylight), Hydraulic Press (single daylight), Hydraulic Finishing Press, Belt Endlessing M.C.(Vulcaniser), Sundry Machines viz. Lathes, Shaper, Generator sets, Hydraulic Jacks, etc.

Rubber Products Quality Testing Apparatus as per ISO :

B.O.D. Incubator (seasoning chamber), Hot Air Ageing Oven, Physical Balance, Tensile Testing Machines, Abrasion Tester(as per DIN), Drum Friction Tester (as per Canadian stds), Scott Flex Tester (as per railways), Dumbbell Dies, Yarn Testing Machine, etc. Calibrated periodically. Indigenous technology with latest technical Indian knows how, however, no collaboration made so far.

Quality Control

It is in between process checks that are strongly checked & lodged in register to ensure finished rubber product meeting quality standards.
Test Certificate (TC) of our Lab, wherever, applicable, is forwarded along with the supply.
Total Quality Management Principles Followed

Export Excellence Award during Feb 1997

# Many more certificates available as feedbacks are constantly monitored for providing highest customer's satisfaction.
Shock-Proof.
Leakage-Free.
Steam-Proof.

Rubber Mat Sheets

TRUSTED BY MACHINERY OEMs OF SUBSTATION, STORAGE SILO, POWER TRANSFORMERS, PHARMA SINCE 1988

HIC International Co Inc
D-136, Shankar Road
New Delhi 110060 India | Asia
Phone: + 91 (011) 2874 5120, 6547 2400, 3296 1400
Fax: 009111 28742791
E-mail: universal@hic-india.com, belts@universaldelhi.org
Contact Person: Mr Anil Gupta - President, Ms Priyum - Exports Head


HIC India Headquarters