



Nepean Rubber & Plastics

**Wear Products for Mining, Mineral Ore Processing
and Quarrying Industries**



**Wear Resistant Rubber, Polyurethane, Ceramic and
Composite liners, Screens, Material Handling Hose**

Commenced operations 1982 — Our in depth technical knowledge is the cornerstone for our growth. Our commitment to high quality technical and all round service continues today and now extends to the Australian **mining, quarrying and mineral ore processing sector.**

The company has at it's disposal the expertise of 130 staff with specialist engineering application expertise in the design and manufacturing of wear parts for the mining industry, with one of a few heavy moulding facilities that can offer complete integration of "**wear products supply**" inclusive of design, manufacture, installation, wear monitoring and after sales service.

Mineral Processing

Nepean Rubber manufacture of a large range of components used in the mining, mineral ore processing and quarrying industry

Utilising our vast experience in engineered elastomeric compounds and moulding technology, Nepean Rubber & Plastics has an extensive range of rubber and composite material wear and abrasion resistant wear products for the mining, quarrying and mineral processing industries.

The product scope is extensive with precision moulded and extruded items for:

- Conveyor belting, conveyor Impact stations and conveyor accessories including dust sealing components and rubber idlers
- Transfer Points – rubber liners for skips, bins hoppers, chutes, skirting rubbers, calendared uncured sheeting for material handling hoses
- Screening – cross tension rubber mats and moulded rubber and polyurethane screen panels,
- Rider bars capping rubbers, side clamps and trommel screens
- Mining and material handling hose and accessories

Other applications – design selection and manufacture of specialised linings for most difficult wear applications , where we will tailor a solution to combat specific wear problems

These products are manufactured from our specifically developed high abrasion and impact resistant rubber and polymer compounds. We offer a fully integrated service encompassing:

Initial on-site visits for equipment and operational parameters assessment

- Design selections and quotations
- Manufacture and supply
- On-site installation co-ordination and wear measurement scheduling

This integrated approach ensures rapid product development and very short lead times



HEAVY MOULDING — 1000 thick x 1750 mm x 2750 mm capability

In House polymer formulation, compounding, mixing and NATA registered laboratory





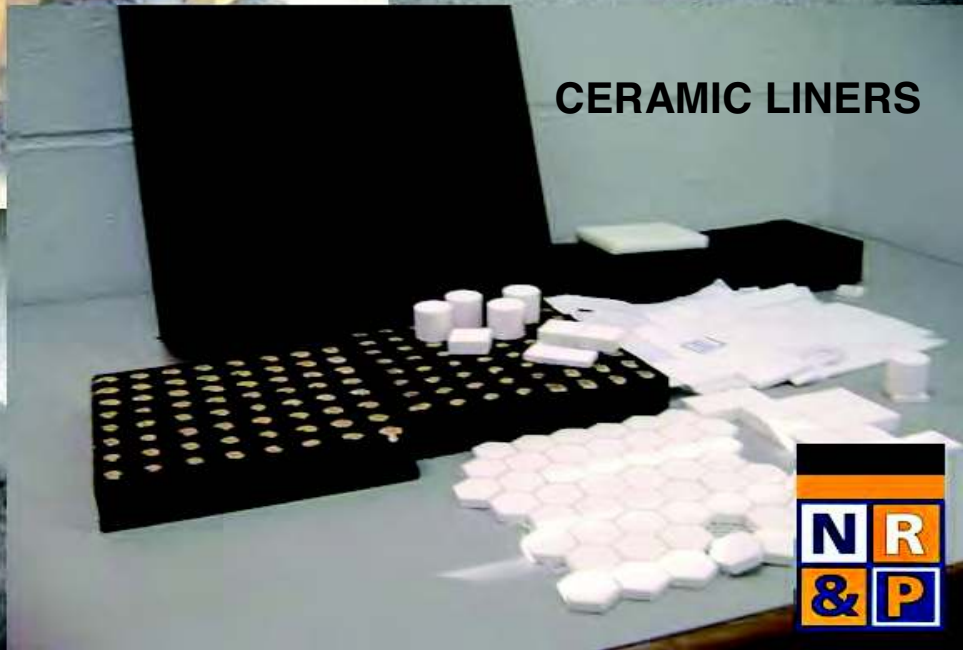
- Moulded screen deck panels or cross tensioned screen cloths
- Moulded Trommel screen panels — rubber and polyurethane
- Rubber backed ceramic liners
- Wear bars
- Moulded rubber wear liners 1250 x 2500 from 10 mm to 180 mm thick
- Wear rubber sheeting
- Rubber lining
- Extruded products



DUMP BODY LINERS



CERAMIC LINERS



Rubber lining applications and materials

What is rubber lining?

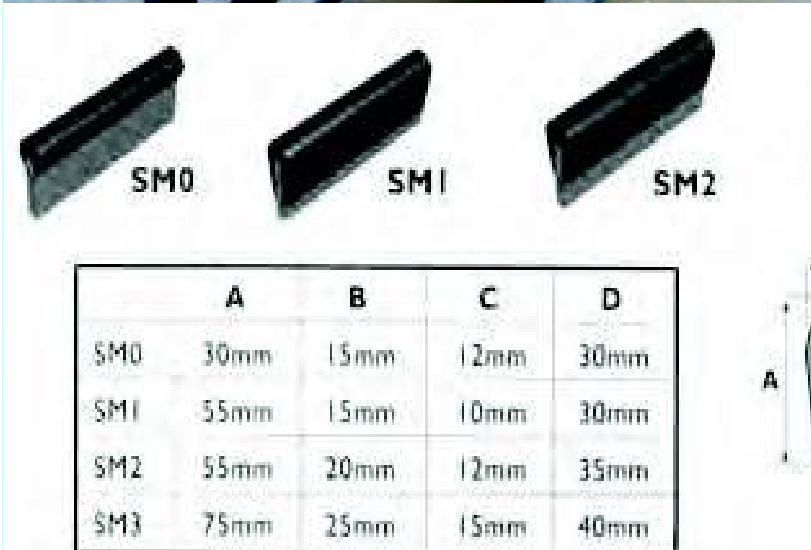
Rubber lining is the skilled application of unvulcanised rubber sheet to prepared metal surfaces. The lined items are then vulcanised in a steam autoclave, fully bonding the rubber to the metal surface creating a durable and resilient protective rubber coating.

The rubber coating can be from 2mm to 50mm thick depending on the application, and can be bonded to mild steel, stainless steel, cast iron and aluminium.

Benefits

The principal benefits of rubber lining are its excellent resistance to corrosive and abrasive chemicals and materials, e.g. acids, alkalis, salt water, slurries, sand, shot blast media, crushed rock etc. In addition rubber linings provide other benefits including noise and vibration reduction, electrical and thermal insulation and product protection.

Industry	Applications	Materials
Mining, Quarrying and Aggregates	Abrasion resistant linings/coatings for hoppers, chutes, cyclones, slurry pipe work, sand washing plant, separators etc. Also bolt-in rubber wear plates for chutes and hoppers, rubber coatings for conveyor rollers.	Generally soft natural rubber for abrasion resistance. Hardness range 40 to 70 I.R.H.D.
Chemicals and Pharmaceuticals	Chemical resistant linings/coatings for storage tanks, process vessels, pipe work, valves, pumps, filters, agitators, centrifuges etc.	Soft natural or hard ebonite rubber, neoprene, butyl and hypalon depending on operating temperature and application.
Electroplating and Metal Finishing	Chemical resistant linings for electroplating tanks, filters, pipe work and valves. Also wear resistant linings for vibratory finishing machines (barrels, bowls and tubs), shot blast cabinets and cyclones.	Hard ebonite rubber and PVC linings for electroplating tanks. Soft natural rubber for vibratory finishing and shot blast machines.
Food and Brewing	Food quality linings for chutes, hoppers, process vessels, mixers, coating pans, pipe work etc.	White food quality linings available.
Marine Industry	Corrosion resistant linings for fume scrubbers and cooling pipe work. Wear resistant linings for dredging pipe work and cable pulleys.	Hard ebonite rubber for corrosion resistance. Soft natural rubber for wear resistance.
Materials Handling	Protective coatings for grabs, hooks and clamps. Wear resistant linings for chutes, hoppers and storage bins etc. Rubber coating for conveyor rollers.	Generally soft natural rubber for product protection and wear resistant. Various materials for roller coverings.
Power Generation	Corrosion resistant linings for water treatment plant and cooling pipe work. Wear resistant linings for coal handling plant, coatings for conveyor rollers etc.	Mostly soft natural rubber, plus other materials for certain applications.
Water and Effluent Treatment	Corrosion resistant linings for water treatment vessels and pipe work, pumps, valves, flow meters, agitators, chemical dosing tanks, effluent tanks etc.	Soft natural or hard ebonite rubber, EPDM, butyl, neoprene or Hypalon. WRAS listed materials available for potable water.
Civil Engineering	Wear and abrasion resistant linings for road rollers, compaction plates, and cement mixers.	Generally soft natural rubber.



	A	B	C	D
SM0	30mm	15mm	12mm	30mm
SM1	55mm	15mm	10mm	30mm
SM2	55mm	20mm	12mm	35mm
SM3	75mm	25mm	15mm	40mm



Side Tension Plates.

Master batch, finished compound mixing

Rubber compression and injection moulding

Plastic injection moulding

Liquid silicon injection moulding

Clean room facilities

Extruded products

Polyurethane – cast

Calendared sheeting

Fabrication and component assembly

NATA registered and approved laboratory

Rubber and composite wear liners

Mining, quarrying & mineral ore processing machinery



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Large enough to deliver—small enough to care