



# PIPE LINING: POLYURETHANE

Iracore is the pioneer of non-metallic pipe lining specifically engineered for the challenging conditions of the Oil Sands. The Iracore system was developed FOR the Oil Sands, IN the Oil Sands, and now stands unrivaled in longevity among polymer materials, with over 170 kilometers of Iracore pipe installed, some exceeding 14 years of continuous operation.

Our patented dual-layer natural rubber and polyurethane system uses advanced urethane compounds specifically developed for your operating conditions. There is no “one size fits all” approach to these materials, so a good understanding of the slurry conditions for the application is always required. The system includes lined pipe spools and pipe fittings ranging from 3" to 72" up to 63' lengths.

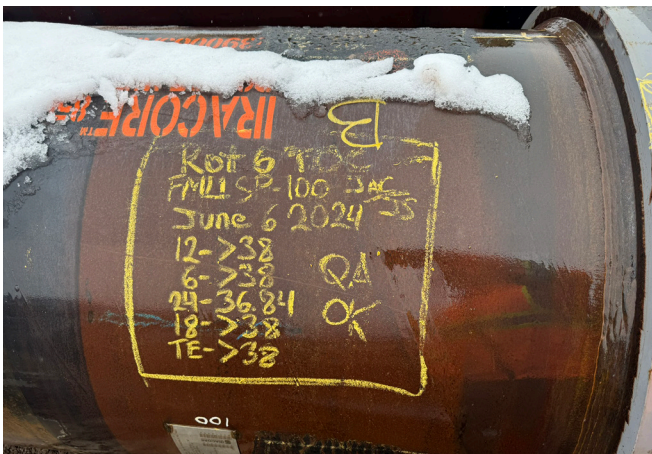
## Our Polyurethane Compounds Overview:

**Iracore 7500** is engineered for extended service life under the operational temperatures of typical oil sand slurry lines—outstanding long-term durability in extended sliding wear applications.

**Iracore 8500** is designed for resilience in high-wearing applications—exceptional performance in transition spools, vents, drains, expansion barrels, and bends.

Category	Iracore w7500	Iracore 8500
Wear Life vs. Carbon Steel	Up to 6x	Up to 8x
Durometer (Shore A)	89	82
Coriolis Wear Resistance (Steel =1) @ Operating Temp	343	567
Slurry Jet Test	10mm <sup>3</sup>	3mm <sup>3</sup>
Resilience (% Bashore Rebound)	44	52
Optimal Performance Temp	35 - 70°C	10 - 50°C

Learn more about our other urethane compounds by visiting [iracore.com](http://iracore.com)



## Proven to Outperform

Since 1957, Iracore has been proven to outperform in our clients' toughest wear environments by leading the innovation, design, and manufacturing of engineered products, including lined pipe.

Studies have shown time and time again how Iracore materials deliver higher value than metal and other polymer materials.

Iracore is the manufacturer of elastomer wear products for abrasion and corrosion applications:

### Urethane – Cast and Spin Cast:

- Iracore develops and compounds custom polyurethane materials for specific conditions

### Rubber – Vulcanized and Cold Bond:

- Soft Natural Gum Rubber (NGR)
- Neoprene 0555\*
- Moderate Oil Resistance (MORS)
- Chlorobutyl / Bromobutyl (Butyl)
- Hot Process Water and other custom applications

### Combination – Iracore™ System

\* Highest wearing Neoprene for use in Oil Sands – rated by the NRC

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