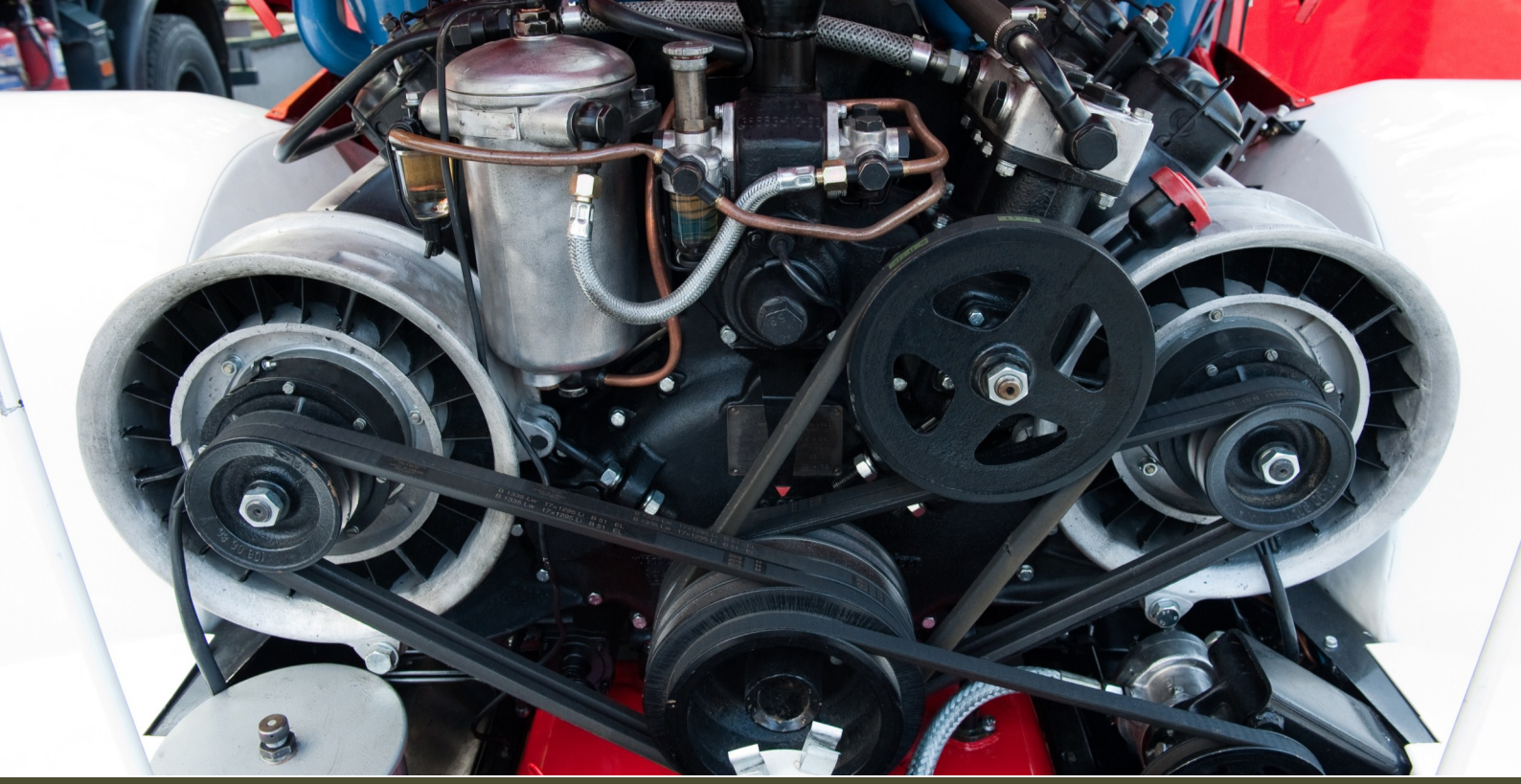

# DENKA CR

*Denka, one of the leading chemical companies in Japan, manufactures a Chloroprene Rubber (CR) that has earned itself an enviable reputation for reliable service in many demanding applications.*

Denka Chloroprene, made from chloroprene monomers, comes in different forms including as a homopolymer consisting of only chloroprene units or it may be polymerized to contain sulphur and/or 2,3 co-monomers such as dichloro 1,3-butadiene.

Denka Chloroprene is a true multipurpose elastomer thanks to its balance of inherent properties, which include:

- Outstanding physical toughness
- Wider short- and long-term operating temperature range than general-purpose hydrocarbon elastomers
- Resistance to hydrocarbon oils and heat (ASTM D2000/SAE J200 categories BC/BE)
- Resistance to ozone, sun and weather
- Better flame retardant/self-extinguishing characteristics than exclusively hydrocarbon-based elastomers

As with all elastomers, properties inherent in the base polymer can be enhanced or degraded by compounding with additional ingredients.

## Selection of CR Type and Grade

The differing grades of Denka Chloroprene fall within various types including A,M,MT,S,DCR,EM,ES and PS. Within each type there are a series of grades that differ primarily in resistance to crystallization, Mooney viscosity and modification.

Selection of type and grade is usually based upon a combination of four factors:

1. **Product performance** - Defined by the most important physical properties for optimum service life, e.g., tear and flex resistance (belts), compression set and stress relaxation resistance (seals, bearing pads), high and low temperature resistance (CVJ boots).
2. **Crystallization resistance** - As dictated by product operating temperatures and/or processing needs.
3. **Mooney viscosity** - Suitable for the intended processing operations with the necessary form of compound.
4. Building tack - Ease of lamination in processing, where necessary.

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