

# CSM LATEX

## CHLOROSULFONATED POLYETHYLENE LATEX

### SUMITOMO SEIKA CHEMICALS CO., LTD.

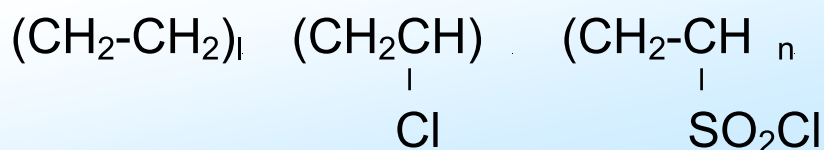
## Functional Chemicals Division

#### SEPOLEX CSM

- Sepolex CSM is a latex widely used for matrix rubbers such as belt hose.
- Sepolex CSM rubber is a latex with excellent resistances such as:
  - High thermal resistance.
  - High oil resistance.
  - High weather resistance.
  - High chemical resistance.
- Due to these properties, Sepolex CSM is used in a wide number of applications such as:
  - Matrix rubbers (Adhesive for EPDM) - Binder material
  - Coating agent

#### Structure of CSM

#### CHLOROSULFONATED POLYETHYLENE LATEX



CSM has excellent resistance against ozone, weather, oil and chemicals. Moreover, it can be colored with bright colors

2

#### Comparison between the properties of CSM gum and other gums

Kind of gum :ASTM abbreviation (Vulcanized gum)		Test method	CSM	EPDM	NBR	CR	NR	SBR	IIR
Machine character	Breaking strength (MPa)	K6301	7~20	5~20	5~25	5~25	3~30	5~20	5~15
	Elongation (%)	K6301	100~500	100~800	100~800	100~1000	100~1000	100~800	100~800
	Abrasion resistance	D394	◎	○	◎	◎~○	◎	◎	○
Physical property	Thermal resistance (max-temperature °C)	-	160	150	130	130	120	120	150
	Cold resistance (brittle temperature °C)	D746	-20~-60	-40~-60	-10~-20	-35~-55	-50~-70	-30~-60	-30~-55
	Aging resistance	K6301	◎	◎	○	◎	○	○	◎
	Ozone resistance	K6301	○	◎	×	○	×	×	◎
	Weather resistance	K6301	◎	◎	○	◎	○	○	◎
Oil, Chemical resistance	Gasoline·light diesel oil	K6301	○	×	◎	○	×	×	×
	Benzene·Toluene	K6301	△~×	△	△~×	×	×	×	△
	Trichloroethylene	-	×	×	×	×	×	×	×
	MEK, Ethyl acetate	K6301	△	◎	×	○~△	○~△	○~△	◎
	Strong acid	K6301	◎	○	○	○	△	△	◎
	Strong alkali	K6301	◎	◎	○	◎	○	○	◎

