

PIONEER RUBBER COVER GRADE QUALITIES

All Pioneer cover qualities perform well beyond the minimum requirements of the international standards mentioned in the table below and comply with REACH regulation. All pioneer cover qualities are an-static according to EN ISO 284 and are extensively ozone tested in compliance with EN ISO 1431 ozone resistance (50 pphm, strain 20%, 96 h no cracking) in order to avoid premature failure due to cracking of the belt surface.

BASIC MATERIALS

Code	Rubber type	Code	Rubber type
NR	Natural Rubber	EPM	Ethylene-Propylene Rubber
SBR	Styrene-Butadiene Rubber	CR	Chloroprene Rubber
NBR	Nitrile Rubber	CSM	Chlorosulfonated Polyethylene

Pioneer Cover Quality		DIN quality	EN/ISO quality	Permissible temp. °C ¹			Base polymer	Technical Features
				Min. Ambient	Cont. Material	Peak Material		
Abrasion resistant	AA			-30	80	100	SBR	Abrasion resistant for normal service conditions.
	RA	Y		-30	80	100	SBR	Abrasion resistant for more severe service conditions.
	RE	X	H	-40	80	90	NR	Excellent resistance to cuts, impact, abrasion and gouging resulting from large and heavy lump sizes
	RS	W	D	-30	80	90	NR/SBR	Impact and extra wear resistance for conveying highly abrasive materials of mixed lump sizes.
Heat resistant	Betahete	T	T2	-20	160	180	SBR	Heat and wear resistant for high temperature materials.
	Deltahete	T	T3	-20	200	400	EPM	Superior heat resistant for heavy duty service conditions, up to 400 °C for short time intervals
Oil and fat resistant	ROM	G		-20	80	90	SBR/NBR	Oil and fat resistant for most products with animal and vegetable oils and fats. ²
	ROS	G		-20	80	120	NBR	Oil and fat resistant for products containing mineral oils.
Fire retardant	BV	K/S ³	2A/2B	-20	80	90	SBR	Fire retardant and abrasion resistant according to EN 12882 and EN ISO 340.
	VT	VT	4A/5A ⁴	-15	80	90	CR/SBR	Highly fire retardant for above ground according to EN 12882 and EN ISO 340.
	V	V	A/B2/C2 ⁴	-15	80	90	CR	Highly fire retardant for under-ground according to EN 14973 and EN ISO 340.
Fire retardant & Oil resistant	BVROM	K/S ³	2A/2B	-20	80	90	SBR/NBR	Combines features of ROM and fire retardant according to EN 12882 and EN ISO 340.
	BVROS	K/S ³	2A/2B	-20	80	90	NBR	Combines features of ROS and fire retardant according to EN 12882 and EN ISO 340.
Fire retardant, Heat & Oil resistant	BVGT	T / G K/S ³	T1 / 2A/2B	-20	150	170	CSM	Combines features of Betahete, ROS and fire retardant according to EN 12882 and EN ISO 340.

Other cover grade qualities for special applications and extreme low temperatures are available upon request.

¹ For elevator belts other values apply.

² In some cases (with products containing high concentrations of animal and vegetable oils) ROS should be selected.

³ K = fire retardant with covers S = fire retardant with and without covers

⁴ Limited to specific belt constructions