RUBBER SELECTION MATRIX

PRIMARY CONSIDERATION

SECONDARY CONSIDERATION

	MINIMUM MATERIAL	HIGH STRENGTH	OIL RESISTANCE	WEAR RESISTANCE	HIGH HARDNESS	HEAT RESISTANCE	RESILIENCE	WEATHER RESISTANCE
MINIMUM MATERIAL COST		1 NR 2 CR 3 AU, EU	1 NBR 2 CR 3 AU, EU	1 SBR, NR 2 NBR/PVC, AU, EU	1 NR 2 SBR 3 CR	1 EPDM 2 CSM 3 IIR	1 IR 2 NR, BR 3 CR	1 EPDM 2 CR, IIR 3 CSM
HIGH STRENGTH	1 NR, SBR 2 EPDM, IIR 3 BR		1 AU, EU 2 NBR, T, ACM	1 AU, EU 2 NR 3 CR	1 AU, EU 2 NR 3 SBR, CR, IIR	1 EPDM 2 CSM, IIR	1 AU, EU 2 NR, IR 3 CR	1 AU, EU 2 CR 3 EPDM, IIR
OIL RESISTANCE	1 NBR 2 CR 3 T	1 AU, EU 2 NBR 3 CR		1 NBR, AU, EU 2 CR, ACM	1 AU, EU 2 NBR, ACM 3 CSM, CR	1 CSM, ACM 2 NBR, AU, EU	1 AU, EU 2 CR 3 NBR, ACM	1 SI, T, ACM 2 CR, CSM
WEAR RESISTANCE	1 SBR, IR 2 EPDM 3 NR, BR	1 AU, EU 2 NR, SBR 3 CR	1 NBR, AU, EU 2 CR, ACM		1 AU, EU, NR, SBR 2 CR, NBR/PVC	1 EPDM,SI, CR 2 CSM, ACM, IIR	1 NR, BR, CR 2 AU, EU, IR	1 CR, AU, EU 2 EPDM, CSM, IIR, ACM
HIGH HARDNESS	1 SBR, NR 2 EPDM 3 IR	1 AU, EU 2 NR 3 CR	1 AU, EU 2 NBR, ACM	1 AU, EU 2 SBR, NR NBR/PVC		1 CSM, EPDM 2 ACM, IIR	1 NR, AU, EU 2 CR 3 IR, BR	1 AU, EU 2 CR, CSM, IIR
HEAT RESISTANCE	1 EPDM 2 SBR, IR 3 NR, BR	1 EPDM 2 NR 3 AU, EU	1 NBR, SI, T 2 ACM	1 NR, SBR, CR NBR, IR, BR 2 IIR	1 AU, EU, NR, SBR, IIR		1 NR, CR, AU, EU, IR, BR	1 EPDM, CSM, SI, ACM, IIR
RESILIENCE	1 NR, SBR, BR 2 IR 3 EPDM	1 AU, EU 2 NR 3 CR	1 AU, EU 2 NBR, T, ACM	1 NR, IR, BR 2 CR, AU, EU	1 AU, EU, NR 2 CR	1 EPDM, CSM, SI, ACM, IIR		1 CR, AU, EU 2 CSM, SI, T, ACM, IIR
WEATHER RESISTAN	1 EPDM 2 SBR, IR 3 NR, BR	1 CR 2 AU, EU 3 NR	1 AU, EU, T ACM	1 AU, EU, CR, NBR/PVC 2 NR, NBR, SBR	1 AU, EU, CR IIR 2 NR, SBR	1 EPDM, CSM ACM, IIR	1 CR, AU, EU 2 NR, IR, BR 3 EPDM	

KEY

AU	MILLABLE URETHANE - POLYESTER	IIR	BUTYL
ACM	POLYACRYLATE	IR	POLYISOPRENE
BR	POLYBUTADIENE	NBR	NITRILE
CR	POLYCHLOROPRENE (NEOPRENE)	NBR/PVC	NITRILE / PVC BLEND
CSM	CHLOROSULFONATED POLYETHYLENE (HYPALON®)	NR	NATURAL RUBBER
EPDM	ETHYLENE PROPYLENE DIENE RUBBER	SI	SILICONE
EU	MILLABLE URETHANE - POLYETHER	T	POLYSULFIDE (THIOKOL)

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