

Rubber family	Nomination		Category	National aero. Standard	Available alternative in replacement NF L17-107	Basic use				Other possible uses	Limitations examples	
	Class	Subclass				Milieu		Use °C				
						Definition	Standards	In extended use	In limited use			
1 Natural Rubber (NR) Styrène-Butadiène Rubber (SBR)	-	-	-	-	-	-	-	-	-	-	-	
2 NBR	20	A	5-6-7-8-9	NF L17-120	21A - 21B - 26B - 26C 60C - 61D - 65C	Hydraulic fluid mineral base and synthetic hydrocarbon	DCSEA 415	-30 / +120°C	-30 / +140°C	- Other oil liquids resistance with mineral base: excellent to medium depending on categories ; - Halogenated solvents resistance & ethylene glycol base liquid : cooling system	- Mediocre resistance to atmospheric agents ; - Forbidden use with hydraulic fluids like phosphoric ester (permanent or temporary immersion, projections, etc.)	
		B	5-6-7-8-9					-50 / +100°C	-50 / +120°C			
	21	A	6-7-8-9	NF L17-121	60C - 61D - 63D - 65C - 66B	Oil fuels Diester Lubricants Petrol 100-130 JP1 JP4 Synthetic turbine oil	DCSEA 118 DCSEA 134 AIR 3407 AIR 3514	-20 / +120°C	-20 / +140°C			
		B	4-6-8					DCSEA 118 DCSEA 134 AIR 3407	-40 / +100°C			-20 / +140°C
	23	B	7	NF L17-123	-	Lubricants diesters	AIR 3514	-50 / +120°C	-50 / +140°C			
	24	B	7	NF L17-124	21A - 21B - 26B - 26C 60C - 61D - 65C	Hydraulic fluid mineral base and synthetic hydrocarbon	DCSEA 415	-50 / +120°C	-50 / +140°C			
25	B	-	-	-	Deleted class	-	-30 / +120°C	-50 / +125°C				
2 HNBR	26	C	6-7-8-9	NF L17-126	-	Oil fuels Synthetic Lubricants	-	-20 / +150°C	-40 / +175°C	- Other oil liquids resistance with mineral base: excellent to medium depending on categories ; - Halogenated solvents resistance & ethylene glycol base liquid : cooling system	- Forbidden use with hydraulic fluids like phosphoric ester (permanent or temporary immersion, projections, etc.)	
3 CR	31	B	3-4-5-6-7-8	NF L17-131	20B - 23B - 24B - 50D 52D - 54D - 60C - 61D - 63D	Atmospheric agent Oil lubricants Turbine oil and piston engine	AIR 3512 AIR 3560	-40 / +100°C	-40 / +120°C	- Air circuit ; - Flame propagation resistance : medium to excellent ; - Resistance to different fluids projection	- Mediocre resistance to fuels and oil fluids with low and medium aniline in total immersion cases	
	32	A	5-7	NF L17-132	-	Dielectric use	-	-30 / +100°C	-30 / +120°C	-	- Use exclusively reserved to basic use.	
4 EPDM	41	B	6-7-8-9	NF L17-241	42B - 44B	Hydraulic fluid Like phosphoric ester	-	-55 / +100°C	-55 / +150°C	- Atmospheric agents resistance ; - Air circuits	- Mediocre nervosity limiting possibilities of dynamic and profiled seals use ; - Forbidden use with oil liquids.	
	42	B	5-6-7-8-9	NF L17-242	41B	Atmospheric agent Hot air	-	-55 / +125°C	-55 / +160°C	- Resistance to fluids projection like phosphoric ester	- Not recommended use in fluids immersion like phosphoric ester (contraction chance)	
	44	B	7-8	NF L17-144	-	Hydraulic fluid Like phosphoric ester	-	-55 / +100°C	-55 / +150°C	- Atmospheric agents resistance ; - Air circuits	-	
5 VMQ	50	D	4-5-6-7-8	NF L17-250	41B	Atmospheric agent Hot air Dielectric uses	-	-55 / +225°C	-55 / +260°C	- High aniline oil lubricants resistance (up to 150°C) ; - Other oil fluids projection resistance ; - Phosphoric esters projection resistance	- Low mechanical characteristics limiting some uses ; - Forbidden use with fuels and oil fluids, with low and high aniline, in case of total immersion	
	52	D	5	NF L17-250	-	Atmospheric agent Hot air Good tear resistance	-	-55 / +200°C	-55 / +225°C	- Hot air circuits, sealing cells seals, access door to cabin (except for 54 class) ; - High aniline oil lubricants resistance (up to 150°C) ;	- Low mechanical characteristics limiting some uses ; - Forbidden use with fuels and oil fluids, with low and high aniline, in case of total immersion	
	53	D	5	NF L17-153	-	Atmospheric agent Hot air Good flame propagation resistance	-	-70 / +200°C	-70 / +225°C	- Other oil fluids projection resistance ; - Phosphoric esters projection resistance	-	
	54	D	4-5-6-7	NF L17-154	-	Atmospheric agent Hot air Dielectric uses	-	-55 / +250°C	-55 / +300°C	-	-	
6 Fluorinated Rubbers	FKM	60	C	7-9	NF L17-260	66B	Oil fluids, hydraulic fluids, lubricants, fuels, etc. Diester lubricants	AIR 3514	-20 / +200°C	-20 / +260°C	- Atmospheric agents resistance, hot air resistance ; - Various fluids resistance - Dielectric uses	- Forbidden use with hydraulic fluids like phosphoric ester (permanent or temporary immersion, projections, etc.) - Mediocre nervosity with temperatures lower than + 20°C, limiting some uses
	FMVQ	61	D	6-7-8	NF L17-261		Oil fluids, hydraulic fluids, lubricants, fuels, etc.	-	-55 / +180°C	-55 / +200°C	- Atmospheric agents resistance, hot air resistance ; - Good to medium resistance to oil fluids according to fluid	- Low mechanical characteristics limiting some uses ; - Forbidden use with hydraulic fluids like phosphoric ester (permanent or temporary immersion, projections, etc.)
	Halogeno-carboned	62	A	6	NF L17-164	-	Red nitric acid steaming	-	-10 / +50°C	-10 / +120°C	-	- Use exclusively reserved to basic use
	FMVQ	63	D	6	NF L17-163	66B	Oil fluids, hydraulic fluids, lubricants, fuels, etc. Good tear resistance	-	-55 / +150°C	-55 / +200°C	- Atmospheric agents resistance, hot air resistance ; - Good to medium resistance to oil fluids according to fluid	- Medium mechanical characteristics limiting some uses ; - Forbidden use with hydraulic fluids like phosphoric ester (permanent or temporary immersion, projections, etc.)
	FKM	64	C	6-8	NF L17-164	-	Oil fluids, hydraulic fluids, lubricants, fuels, etc. Diester lubricants	AIR 3514	-20 / +230°C	-20 / +260°C	- Atmospheric agents resistance, hot air resistance ; - Various fluids resistance - Dielectric uses	- Forbidden use with hydraulic fluids like phosphoric ester (permanent or temporary immersion, projections, etc.) - Mediocre nervosity with temperatures lower than + 20°C, limiting some uses
		65	C	8	NF L17-165	-	Improved diester lubricants resistance	AIR 3514	-10 / +230°C	-10 / +260°C	- Creep resistance improved compared to 60°C class	- Forbidden use with hydraulic fluids like phosphoric ester (permanent or temporary immersion, projections, etc.) - Mediocre nervosity with temperatures lower than + 10°C, limiting some uses
		66	B	7-8	NF L17-166	-	Very good cold resistance with oil fluids, hydraulic fluids, fuels, etc.	-	-30 / +220°C	-35 / +250°C	- Heat resistance and hydrocarbons resistance ; - Various fluids resistance	-
FKM	67	C	7	NF L17-167	-	Excellent heat and high temperature motor oil resistance	-	+5 / +300°C	0 / +320°C	- Excellent resistance to various fluids	- Low temperatures	