

// 2SC RAILWAY**ISO 11237 - EN 857 2SC - EN 45545-2
R22 (HL1-HL2) - R23 (HL1-HL2-HL3)****Tube:** oil resistant synthetic rubber.**Reinforcement:** two high tensile steel braids.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for railway applications.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)
air max T = +70 °C (+160 °F)**Lenght:** random

Item Code	ID (Dash)	ID (mm)	ID (IN)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1002687	04	6,0	1/4"	13,20	0,52	40,0	5850	160,0	23200	50	1,97	0,270	0,19
1002689	05	8,0	5/16"	14,50	0,57	35,0	5000	140,0	20000	55	2,17	0,310	0,21
1002690	06	10,0	3/8"	17,00	0,67	33,0	4800	132,0	19200	65	2,56	0,360	0,25
1002691	08	13,0	1/2"	20,30	0,80	27,5	4000	110,0	16000	90	3,54	0,470	0,32
1002692	10	16,0	5/8"	23,90	0,94	25,0	3630	100,0	14500	100	3,94	0,570	0,39
1002693	12	19,0	3/4"	27,70	1,09	21,5	3120	86,0	12500	120	4,72	0,760	0,52
1002694	16	25,0	1"	34,60	1,36	16,5	2400	66,0	9600	150	5,91	1,130	0,76

// 2TE RAILWAY**Exceeds EN 854 2TE - EN 45545-2
R22 (HL1-HL2) - R23 (HL1-HL2)****Tube:** oil resistant synthetic rubber.**Reinforcement:** one high tensile textile braid.**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.**Application:** medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for railway applications.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)
air max T = +70 °C (+160 °F)**Lenght:** random

Item Code	ID (Dash)	ID (mm)	ID (IN)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1002680	04	6,0	1/4"	13,10	0,52	7,5	1100	30,0	4300	40,0	1,57	0,112	0,08
1002681	05	8,0	5/16"	14,90	0,59	6,8	986	27,0	3945	50,0	1,97	0,148	0,10
1002682	06	10,0	3/8"	16,50	0,65	6,3	920	25,2	3680	60,0	2,36	0,163	0,11
1002683	08	13,0	1/2"	19,70	0,78	5,8	840	23,2	3360	70,0	2,76	0,206	0,14
1002684	10	16,0	5/8"	23,90	0,94	5,0	730	20,0	2900	90,0	3,54	0,281	0,19
1002685	12	19,0	3/4"	27,00	1,06	4,5	650	18,0	2610	110,0	4,33	0,350	0,24
1002686	16	25,0	1"	34,40	1,35	4,0	600	16,0	2320	150,0	5,91	0,497	0,34

// 2TE RAILWAY PLUS **NEW**



Exceeds EN 854 2TE - EN 45545-2 R22 (HL1-HL2) - R23 (HL1-HL2-HL3)

Tube: oil resistant synthetic rubber.

Reinforcement: one high tensile textile braid.

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for railway applications.

Constant operation: -40 °C +100 °C (-40 °F +212 °F)
air max T = +70 °C (+160 °F)

Length: random

Item Code	ID (Dash)	ID (mm)	ID (IN)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1005441	04	6,0	1/4"	13,10	0,52	7,5	1100	30,0	4300	40,0	1,57	0,112	0,08
1005442	05	8,0	5/16"	14,90	0,59	6,8	986	27,0	3945	50,0	1,97	0,148	0,10
1005443	06	10,0	3/8"	16,50	0,65	6,3	920	25,2	3680	60,0	2,36	0,163	0,11
1005444	08	13,0	1/2"	19,70	0,78	5,8	840	23,2	3360	70,0	2,76	0,206	0,14
1005445	10	16,0	5/8"	23,90	0,94	5,0	730	20,0	2900	90,0	3,54	0,281	0,19
1005446	12	19,0	3/4"	27,00	1,06	4,5	650	18,0	2610	110,0	4,33	0,350	0,24
1005447	16	25,0	1"	34,40	1,35	4,0	600	16,0	2320	150,0	5,91	0,497	0,34

// ALFABIOTECH EVOLUTION 6000 - MINETUFF



ISO 18752 - exceeds SAE 100 R15

EN 45545-2 - R22 (HL1) - R23 (HL1-HL2)

Tube: petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

Reinforcement: four/six high tensile steel spirals.

Cover: smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

Constant operation: -40 °C +120 °C (-40 °F +250 °F)

Length: random up to 1" - 61 m max over 1 1/4"

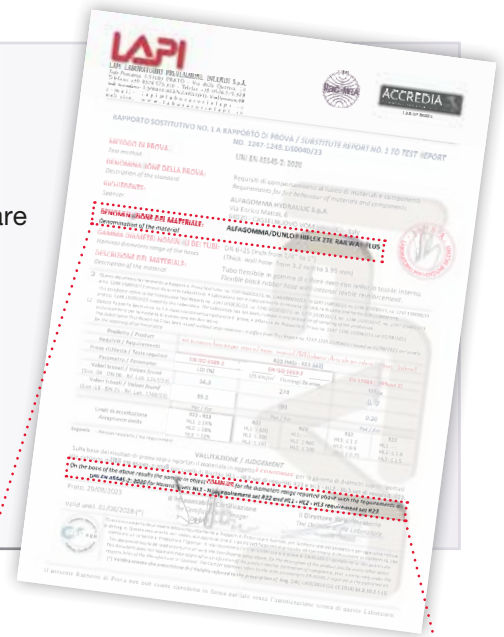
Item Code	Constr.	ID (Dash)	ID (mm)	ID (IN)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1004774	4WS	4	6.0	1/4"	17.0	0.67	45.0	6,550	180.0	26,200	60	2.36	0.510	0.35
1004775	4WS	6	10.0	3/8"	19.8	0.78	44.5	6,450	178.0	25,800	75	2.95	0.645	0.44
1004776	4WS	8	13.0	1/2"	22.5	0.89	42.0	6,000	168.0	24,000	90	3.54	0.710	0.48
1004777	4WS	10	16.0	5/8"	27.8	1.09	42.0	6,000	168.0	24,000	100	3.94	1.190	0.80
1004778	4WS	12	19.0	3/4"	30.6	1.20	42.0	6,000	168.0	24,000	120	4.72	1.371	0.93
1004779	4WS	16	25.0	1"	38.0	1.50	42.0	6,000	168.0	24,000	150	5.91	1.926	1.30
1004780	6WS	20	32.0	1 1/4"	47.6	1.87	42.0	6,000	168.0	24,000	225	8.86	2.982	2.01
1004781	6WS	24	38.0	1 1/2"	54.4	2.14	42.0	6,000	168.0	24,000	305	12.01	4.144	2.79
1004818	6WS	32	51.0	2"	68.7	2.70	42.0	6,000	168.0	24,000	380	14.96	6.031	4.06

// ALFAGOMMA RAILWAY HOSE RANGE PERFORMANCE ACCORDING TO EN 45545-2

// UPGRADE TO EN 45545-2

Alfagomma 2SC and 2TE are now compliant with the EN 45545-2 standard, requirements for fire behaviour of materials and components in the railway industry. Railway hoses 2SC and 2TE are tested to guarantee the highest levels of safety and performance. The new standard EN 45545-2 is replacing the following country standards.

France	French standard NF F 16-101
Germany	German standard DIN 5510 part 2 (05/2009)
Great Britain	British standard BS 6853
Italy	Italian standard UNI CEI 11170-3



DENOMINAZIONE DEL MATERIALE: ALFAGOMMA/DUNLOP HIFLEX 2TE RAILWAY PLUS
Denomination of the material

On the basis of the above results the sample in object **COMPLIES** for the diameters range reported above with the requirements of **UNI EN 45545-2: 2020** for Hazard Levels **HL1 - HL2** requirement set **R22** and **HL1 - HL2 - HL3** requirement set **R23**.

Hose Type	Hose Spec	EN 45545-2		
		Sizes	R22 (Internal)	R23 (External)
2SC RAILWAY	EN 857	DN6 ÷ DN25	HL1 - HL2	HL1 - HL2 - HL3
2TE RAILWAY	EN 854	DN6 ÷ DN25	HL1 - HL2	HL1 - HL2
2TE RAILWAY PLUS	EN 854	DN6 ÷ DN25	HL1 - HL2	HL1 - HL2 - HL3
ALFABIOTECH EVO 6K	ISO 18752	DN6 ÷ DN51	HL1	HL1 - HL2

