



A/C HOSE SERIES



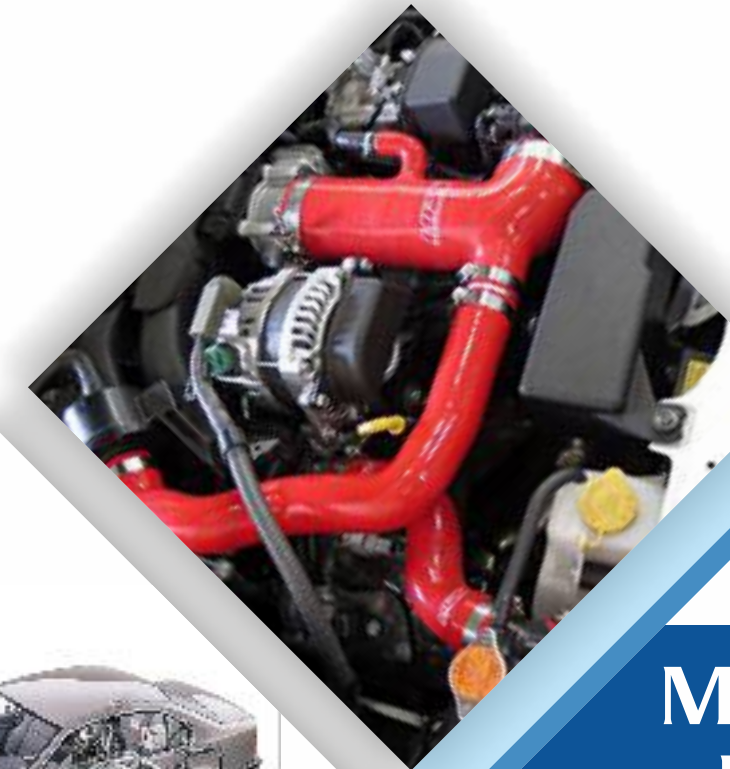
Munich Fluid Products LLP

(A Unit of M Sons Industries)

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Automotive Air Conditioning Hose



Munich Fluid Products





Company Profile

Munich-Baina is a joint venture between Zhejiang Baina Rubber & Plastic Equipment Co. Ltd and Munich Fluid Products (A Unit of M Sons Industries) Mohan Nagar, Ghaziabad (India), our joint venture company Zhejiang Baina was founded in the year 1988 & started manufacturing of rubber products, the manufacturing unit is established in the total area of 60000 sq mtrs.

Our joint venture has been a market leader in production of A.C Hoses and Fluid products, it has exported its production lines and equipments to various countries like Russia, Thailand, Uzbekistan, Spain, Turkey, Czech Republic, Iran & Israel etc, the company has abundant R & D strength and advanced international Rubber COTS & Laboratory equipments with 15 patents to its name till date.

We Munich Fluid Products is a unit of M/s M Sons Industries established in the year 2008 and are engaged in manufacturing and trading of various industrial equipments & machines, we have set up this joint venture as a technical & financial collaboration to supply all types of AC Hoses in India and Abroad, over the years we have earned ourselves a reputation of being one of the most trusted manufacturers and supplier of Industrial Machines and equipments, we endeavour to provide our customer with best quality product at reasonable prices with excellent after sales service.

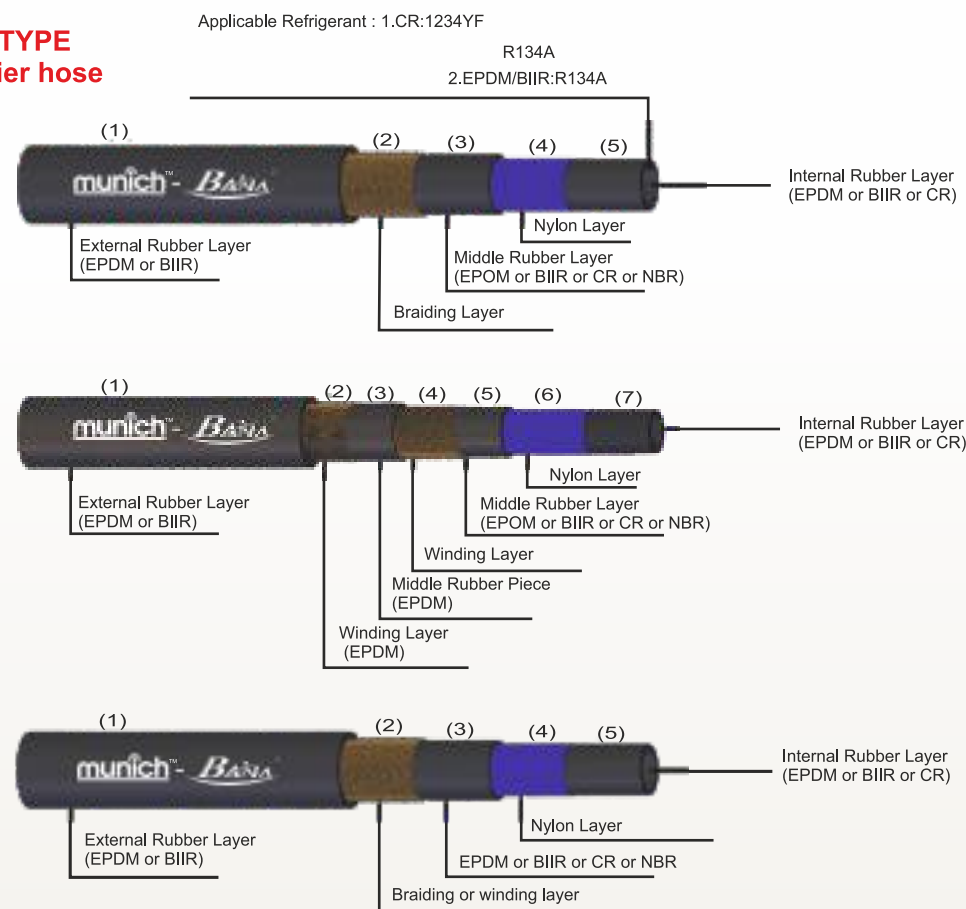


Air conditioning hose production line

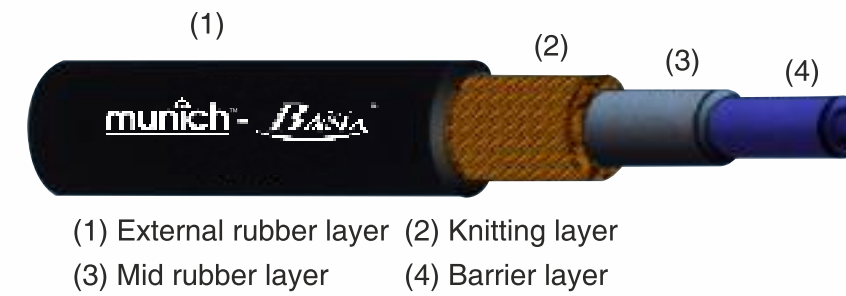




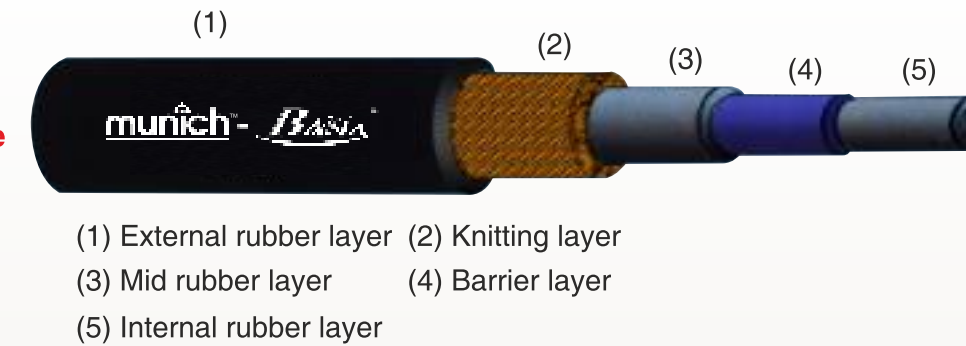
**C TYPE
Barrier hose**



Veneer hose



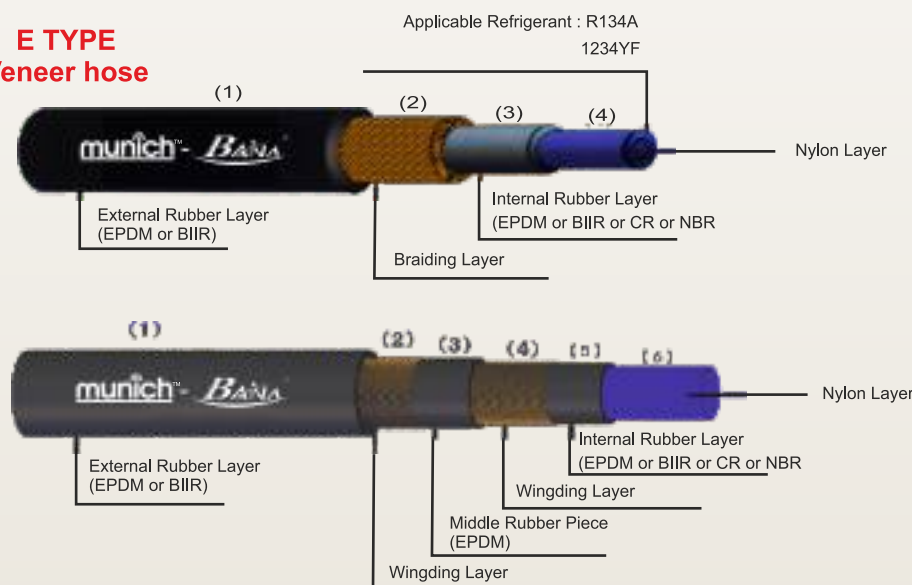
Barrier hose



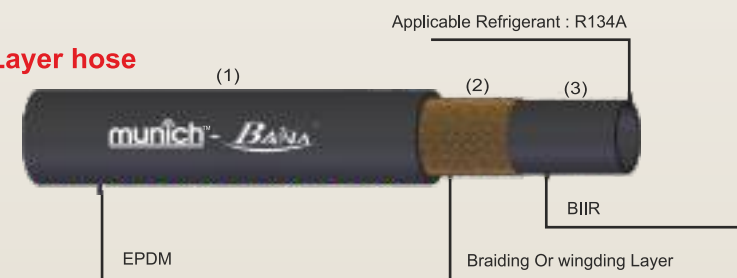
A/C Hose Technician Specification : SAE J2064-2005 and QC/T 664-2000

TEST ITEM	STANDARD	TEST CONDITION	BEB SERIES	BEH SERIES	BCB SERIES	BCH SERIES
PERMEATION TEST	MAX 9.7Kg/m ² /yr	80°C X 28 day	< 3. 0	< 3. 0	< 1. 6	< 1. 6
AGING TEST	NO CRACKS	135°C X 168 h	QUALIFIED	QUALIFIED	QUALIFIED	QUALIFIED
COLD TEST	NO CRACKS	-40°C X 24 h	QUALIFIED	QUALIFIED	QUALIFIED	QUALIFIED
VACUUM FLATTENING	MAX 20%	10 mm Hg	2. 00%	0. 40%	2. 00%	0. 40%
LENGTH CHANGE	- 4% — + 2%	PRESSURE 2.4 and 2.7 MPa	0. 4	1	- 0. 3	- 0. 8
BURSTING STRENGTH	12. 0MPa 13. 7 MPa	RATE 69/MPa/min	> 18	> 19	> 20	> 20
PROOF TEST	NO ABNORMALITIES	50% 30S - 5 min	NO LEAKS	NO LEAKS	NO LEAKS	NO LEAKS
EXTRACTION TEST	MAX 118g/m ²	R-134a 70°C / 24 hrs	30	32	48	52
OZONE TEST	NO CRACKS	50 ppm 40°C / 70 hrs	QUALIFIED	QUALIFIED	QUALIFIED	QUALIFIED
CLEANNESST TEST	MAX 270mg / m ²		20	20	22	26
MOISTURE INGRESSION	MAX 0.25 - 0.70g / in 2/gr	HUMIDITY 85%	0.32	0.35	0.22	0.2
PULSE EXPERIMENTS	NO DAMAGE	150000 TIMES PRESSURE CYCLE	NO DAMAGE	NO DAMAGE	NO DAMAGE	NO DAMAGE

**E TYPE
Veneer hose**



3 Layer hose





A/C HOSE TYPE AND SIZE

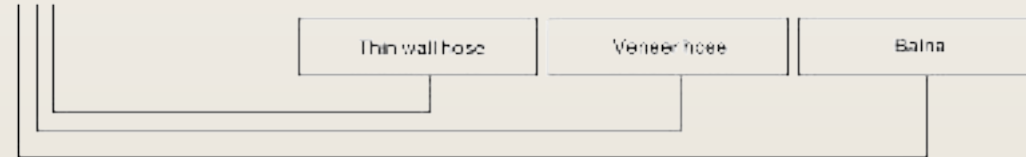
BEB SERIES

NOM. SIZE		INSIDE DIAMETER (MM)				OUTSIDE DIAMETER (MM)			
		MM		INCH		MM		INCH	
MM	INCH	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
8	5/16"	7.8	8.6	0.307	0.339	14.7	15.7	0.579	0.619
10	13/32"	10.1	10.9	0.398	0.429	16.8	17.8	0.661	0.701
11.5		11.1	11.9	0.437	0.469	18	19	0.709	0.748
13	1/2"	12.8	13.6	0.504	0.535	20.3	21.3	0.799	0.839
15.2		14.6	15.6	0.583	0.614	22.5	23.5	0.886	0.925
15.5	5/8"	15.1	15.9	0.594	0.626	23	24	0.908	0.945
19	3/4"	19.5	19.5	0.728	0.769	27.8	29.1	1.099	1.146
22	7/8"	21.7	22.7	0.854	0.894	32.5	34.1	1.290	1.343
28.5	9/8"	29.1	29.3	1.106	1.154	38.9	40.5	1.531	1.604

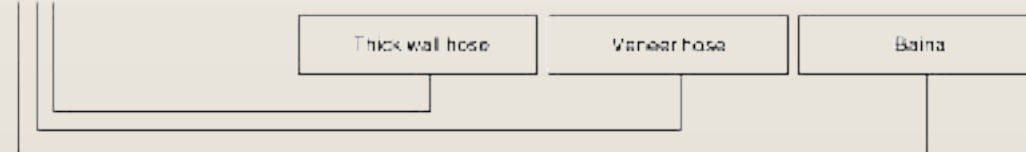
BEH SERIES

NOM. SIZE		INSIDE DIAMETER (MM)				OUTSIDE DIAMETER (MM)			
		MM		INCH		MM		INCH	
MM	INCH	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
8	5/16"	7.8	8.6	0.307	0.339	18.2	19.2	0.717	0.758
10.5	13/32"	10.1	10.9	0.398	0.429	22	23	0.868	0.908
13	1/2"	12.8	13.4	0.504	0.528	22.5	23.5	0.886	0.925
16	5/8"	15.5	16.5	0.610	0.650	27.4	28.8	1.079	1.126

Model meaning:
Forexample: BEB



Model meaning:
Forexample: BEH



A/C HOSE TYPE AND SIZE

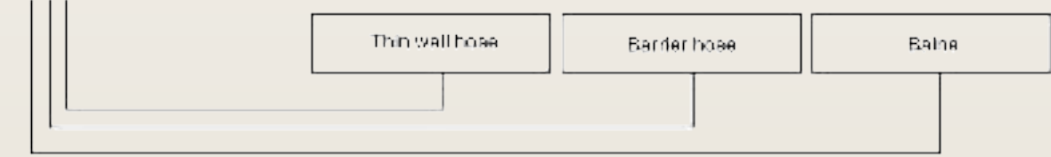
BCB SERIES

NOM. SIZE		INSIDE DIAMETER (MM)				OUTSIDE DIAMETER (MM)			
		MM		INCH		MM		INCH	
MM	INCH	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
8	5/16"	7.8	8.6	0.307	0.339	14.2	15.7	0.558	0.618
10	13/32"	10.1	10.9	0.398	0.429	16.8	17.8	0.661	0.701
11.2		10.8	11.6	0.425	0.457	18	18.9	0.709	0.744
11.4		11	11.8	0.433	0.465	18	18.9	0.709	0.744
13	1/2"	12.8	13.6	0.504	0.535	18.9	21.5	0.744	0.846
15.2		14.8	15.6	0.583	0.614	22.5	25	0.886	0.984
16	5/8"	15.6	16.6	0.614	0.654	23	24.2	0.908	0.953
22.7	7/8"	22.2	23.2	0.874	0.913	32.3	33.7	1.272	1.327
29	9/8"	28.4	29.6	1.118	1.166	39.4	41	1.561	1.614

BCH SERIES

NOM. SIZE		INSIDE DIAMETER (MM)				OUTSIDE DIAMETER (MM)			
		MM		INCH		MM		INCH	
MM	INCH	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
8	5/16"	7.8	8.6	0.307	0.339	18.5	19.5	0.728	0.768
10.5	13/32"	10.1	10.9	0.398	0.429	22.5	23.5	0.886	0.925
13	1/2"	12.8	13.4	0.504	0.528	22.5	23.9	0.886	1.020
16	5/8"	15.6	16.6	0.614	0.654	28	29.2	1.102	1.146

Model meaning:
Forexample: BCB



Model meaning:
Forexample: BCH

