

# Product Catalogue 2017/2018

# FIRE FIGHTING



Ohrdruffer SchlauchWeberei  
Eschbach GmbH

## **The OSW-hose story**

The OSW – Ohrdruffer SchlauchWeberei Eschbach GmbH was established in 1993 in the heart of Germany ... in the heart of Europe. As one of the leading manufacturers of lay-flat fire hoses and specialised hoses in Europe, OSW now enjoys a high reputation throughout the world.

We can offer a wide range of fire hoses meeting all requirements for fire fighting operation as well as special hoses for irrigation, mining, refineries, ships ...

The OSW – fire hoses meet the high standards of DIN 14 811:2008, prEN 1924, KTW, BS 6391:2009 Type 3, Lloyd's Register and Marine Coastguard Agency, just to mention a few.

The use of high quality raw materials combined with the most modern production facilities and manufacturing technologies are the guaranty for absolute top products. Permanent research, a well trained labour force and flexibility is our base leaving satisfied customers all over the world. All hoses can be supplied with international standard coupling systems.

In order to be able to meet fire protection and industry requirements we continually extend our product range with innovations and continuous further developments.

The OSW – Ohrdruffer SchlauchWeberei Eschbach GmbH operates a Quality Management System which is fully certified to DIN EN ISO 9001:2008.

We are sure that our products will convince you and we look forward to hearing from you soon and thank you in advance for your confidence in us.

The OSW – Ohrdruffer SchlauchWeberei Eschbach GmbH

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hoses during vulcanizing process



twisting process of warp and weft

## Uncoated Single Jacket Fire Fighting Hose

**Syntex 500 (white plain) | Syntex Extra (white plain)  
Syntex Robust (white plain)**

This hose quality is in the diameters C/42 mm, C/52 mm and B/75 mm available in the performance levels:

- L1 – Performance Level 1 – Syntex 500 (white plain)
- L2 – Performance Level 2 – Syntex Extra (white plain)
- L3 – Performance Level 3 – Syntex Robust (white plain)

The higher the performance level the higher the abrasion resistance of the hose.


### Construction

- inside: high-quality, very light synthetic rubber on the basis of EPDM
- outside: jacket of 100 % high tenacity synthetic polyester yarn (colour: white plain), circular-woven twill weave, warp and weft threads multiple twisted

### Feature

- very light and flexible hose quality
- minimum maintenance
- extremely resistant to aging and ozone and UV
- excellent abrasion resistance
- minimum friction loss because of very smooth inner lining
- suitable for sea water, hot water, many chemicals

### Approvals/Certificates

- DIN 14811:2008-01+A2:2014-08
- BS 6391:2009 Type 1
- M.E.D. 96/98/EC 
- ÖNORM F2105
- Germanischer Lloyd

Approvals or Certificates mailed to you on demand.



**Syntex 500  
(white plain)**

impact- and abrasion  
protection

## Technical Details

Diameter in Inch	Diameter in mm	Bursting Pressure in bar	Bursting Pressure in PSI	Working Pressure in bar – 1:3 Safety	Working Pressure in PSI – 1:3 Safety	Working Pressure in bar – 1:4 Safety	Working Pressure in PSI – 1:4 Safety	Weight in g/m (+/- 5 %)	Weight in lbs/ft (+/- 5 %)	Wall Thickness in mm (+/- 0,2 mm)	Theoretical Tensile Strength in kg
<b>Uncoated Single Jacket Fire Fighting Hose (white plain)</b>											
1 (Storz)	25	60 (DIN)	870	20	290	16 (DIN)	235	130	0,087	1,50	2.300
1 (Geka)	27	60 (DIN)	870	20	290	16 (DIN)	235	145	0,097	1,50	2.300
1 1/4	32	60 (DIN)	870	20	290	16 (DIN)	235	165	0,111	1,50	2.600
1 1/2	38	60 (DIN)	870	20	290	16 (DIN)	235	190	0,128	1,60	3.200
1 1/2	40	60 (DIN)	870	20	290	16 (DIN)	235	210	0,141	1,60	3.200
1 2/3	42	60 (DIN)	870	20	290	16 (DIN)	235	240	0,161	1,65	4.200
1 3/4	45	60 (DIN)	870	20	290	16 (DIN)	235	235	0,158	1,60	3.800
2	52	60 (DIN)	870	20	290	16 (DIN)	235	290	0,195	1,65	5.800
2 1/6	55	60 (DIN)	870	20	290	16 (DIN)	235	285	0,191	1,65	4.600
2 1/2	64	60 (DIN)	870	20	290	16 (DIN)	235	365	0,245	1,65	5.700
2 1/2	65	60 (DIN)	870	20	290	16 (DIN)	235	370	0,249	1,65	5.700
2 1/2	66	60 (DIN)	870	20	290	16 (DIN)	235	375	0,252	1,65	5.700
2 3/4	70	60 (DIN)	870	20	290	16 (DIN)	235	395	0,265	1,65	6.800
3	75	60 (DIN)	870	20	290	16 (DIN)	235	475	0,319	1,75	8.600
3 1/2	90	35 (DIN)	510	12 (DIN)	175	8	115	580	0,390	1,95	9.100
4	102	35 (DIN)	510	12 (DIN)	175	8	115	660	0,443	1,95	9.500
4 1/3	110	35 (DIN)	510	12 (DIN)	175	8	115	780	0,524	1,95	11.700
5	125	35 (DIN)	510	12 (DIN)	175	8	115	870	0,585	2,10	12.800
6 (Storz)	150	35 (DIN)	510	12 (DIN)	175	8	115	950	0,638	2,10	12.800
6 (Perrot)	154	35 (DIN)	510	12 (DIN)	175	8	115	960	0,645	2,10	12.800
8	205	30	435	10	145	7	100	1.075	0,722	2,10	24.500

The data regarding bursting pressure and working pressure refer only to the pure hose without couplings. Changes in technical specification without prior notice.



## Applications

suitable for fire brigades, industry, marine, military, technical support



hoses during vulcanizing process



weaving platform with looms

## Uncoated Single Jacket Fire Fighting Hose

**Syntex Color (red dyed) | Syntex Color Extra (red dyed)  
Syntex Color Robust (red dyed)**

This hose quality is in the diameters C/42 mm, C/52 mm and B/75 mm available in the performance levels:

- L1 – Performance Level 1 – Syntex Color (red dyed)
- L2 – Performance Level 2 – Syntex Color Extra (red dyed)
- L3 – Performance Level 3 – Syntex Color Robust (red dyed)

The higher the performance level the higher the abrasion resistance of the hose.

### Construction

- inside: high-quality, very light synthetic rubber on the basis of EPDM
- outside: jacket of 100 % high tenacity synthetic polyester yarn (colour: red dyed), circular-woven twill weave, warp and weft threads multiple twisted

### Feature

- very light and flexible hose quality
- minimum maintenance
- extremely resistant to aging and ozone and UV
- excellent abrasion resistance
- minimum friction loss because of very smooth inner lining
- suitable for sea water, hot water, many chemicals

### Approvals/Certificates

- DIN 14811:2008-01+A2:2014-08
- Germanischer Lloyd

Approvals or Certificates mailed to you on demand.



**Syntex Color  
(red dyed)**

impact- and abrasion  
protection

## Technical Details

Diameter in Inch	Diameter in mm	Bursting Pressure in bar	Bursting Pressure in PSI	Working Pressure in bar – 1:3 Safety	Working Pressure in PSI – 1:3 Safety	Working Pressure in bar – 1:4 Safety	Working Pressure in PSI – 1:4 Safety	Weight in g/m (+/- 5 %)	Weight in lbs/ft (+/- 5 %)	Wall Thickness in mm (+/- 0,2 mm)	Theoretical Tensile Strength in kg
<b>Uncoated Single Jacket Fire Fighting Hose (red dyed)</b>											
1 (Storz)	25	60 (DIN)	870	20	290	16 (DIN)	235	150	0,101	1,65	2.300
1 (Geka)	27	60 (DIN)	870	20	290	16 (DIN)	235	160	0,108	1,65	2.300
1 1/4	32	60 (DIN)	870	20	290	16 (DIN)	235	175	0,118	1,65	2.600
1 1/2	38	60 (DIN)	870	20	290	16 (DIN)	235	205	0,138	1,65	4.200
1 1/2	40	60 (DIN)	870	20	290	16 (DIN)	235	215	0,144	1,65	4.200
1 2/3	42	60 (DIN)	870	20	290	16 (DIN)	235	240	0,161	1,65	4.200
1 3/4	45	60 (DIN)	870	20	290	16 (DIN)	235	245	0,165	1,65	5.200
2	52	60 (DIN)	870	20	290	16 (DIN)	235	295	0,198	1,65	5.800
2 1/6	55	60 (DIN)	870	20	290	16 (DIN)	235	315	0,212	1,75	5.800
2 1/2	64	60 (DIN)	870	20	290	16 (DIN)	235	380	0,255	1,75	7.600
2 1/2	65	60 (DIN)	870	20	290	16 (DIN)	235	385	0,259	1,75	7.600
2 1/2	66	60 (DIN)	870	20	290	16 (DIN)	235	390	0,262	1,85	7.600
2 3/4	70	60 (DIN)	870	20	290	16 (DIN)	235	425	0,286	1,95	8.100
3	75	60 (DIN)	870	20	290	16 (DIN)	235	495	0,333	1,75	8.600
3 1/2	90	35 (DIN)	510	12 (DIN)	175	8	115	580	0,390	1,95	9.100
4	102	35 (DIN)	510	12 (DIN)	175	8	115	660	0,443	1,95	9.500
4 1/3	110	35 (DIN)	510	12 (DIN)	175	8	115	780	0,524	1,95	11.700

The data regarding bursting pressure and working pressure refer only to the pure hose without couplings. Changes in technical specification without prior notice.



## Applications

suitable for fire brigades, industry, marine, military, technical support

# Uncoated Single Jacket Fire Fighting Hose

**Syntex Signal (yellow dyed) | Syntex Signal Extra (yellow dyed)  
Syntex Signal Robust (yellow dyed)**

This hose quality is in the diameters C/42 mm, C/52 mm and B/75 mm available in the performance levels:

- L1 – Performance Level 1 – Syntex Signal (yellow dyed)
- L2 – Performance Level 2 – Syntex Signal Extra (yellow dyed)
- L3 – Performance Level 3 – Syntex Signal Robust (yellow dyed)

The higher the performance level the higher the abrasion resistance of the hose.

## Construction

- inside: high-quality, very light synthetic rubber on the basis of EPDM
- outside: jacket of 100 % high tenacity synthetic polyester yarn (colour: yellow dyed), circular-woven twill weave, warp and weft threads multiple twisted

## Feature

- highly visible because of the fluorescent signal colour in smoke and darkness → active safety  
→ reduces the risk of accidents during the operation
- very light and flexible hose quality
- minimum maintenance
- extremely resistant to aging and ozone and UV
- excellent abrasion resistance
- temperature range from –40°C up to +100°C
- minimum friction loss because of very smooth inner lining
- suitable for sea water, hot water, many chemicals

## Approvals/Certificates

- DIN 14811:2008-01+A2:2014-08
- Germanischer Lloyd

Approvals or Certificates mailed to you on demand.



weaving process of jacket with incoming rubberlining



hoses during vulcanizing process



Syntex Signal  
(yellow dyed)

impact- and abrasion  
protection



## Technical Details

Diameter in Inch	Diameter in mm	Bursting Pressure in bar	Bursting Pressure in PSI	Working Pressure in bar – 1:3 Safety	Working Pressure in PSI – 1:3 Safety	Working Pressure in bar – 1:4 Safety	Working Pressure in PSI – 1:4 Safety	Weight in g/m (+/- 5 %)	Weight in lbs/ft (+/- 5 %)	Wall Thickness in mm (+/- 0,2 mm)	Theoretical Tensile Strength in kg
<b>Uncoated Single Jacket Fire Fighting Hose (yellow dyed)</b>											
1 (Storz)	25	60 (DIN)	870	20	290	16 (DIN)	235	150	0,101	1,65	2.300
1 (Geka)	27	60 (DIN)	870	20	290	16 (DIN)	235	160	0,108	1,65	2.300
1 1/4	32	60 (DIN)	870	20	290	16 (DIN)	235	175	0,118	1,65	2.600
1 1/2	38	60 (DIN)	870	20	290	16 (DIN)	235	205	0,138	1,65	4.200
1 1/2	40	60 (DIN)	870	20	290	16 (DIN)	235	215	0,144	1,65	4.200
1 2/3	42	60 (DIN)	870	20	290	16 (DIN)	235	240	0,161	1,65	4.200
1 3/4	45	60 (DIN)	870	20	290	16 (DIN)	235	245	0,165	1,65	5.200
2	52	60 (DIN)	870	20	290	16 (DIN)	235	295	0,198	1,65	5.800
2 1/6	55	60 (DIN)	870	20	290	16 (DIN)	235	315	0,212	1,75	5.800
2 1/2	64	60 (DIN)	870	20	290	16 (DIN)	235	380	0,255	1,75	7.600
2 1/2	65	60 (DIN)	870	20	290	16 (DIN)	235	385	0,259	1,75	7.600
2 1/2	66	60 (DIN)	870	20	290	16 (DIN)	235	390	0,262	1,85	7.600
2 3/4	70	60 (DIN)	870	20	290	16 (DIN)	235	425	0,286	1,95	8.100
3	75	60 (DIN)	870	20	290	16 (DIN)	235	495	0,333	1,75	8.600
3 1/2	90	35 (DIN)	510	12 (DIN)	175	8	115	580	0,390	1,95	9.100
4	102	35 (DIN)	510	12 (DIN)	175	8	115	660	0,443	1,95	9.500
4 1/3	110	35 (DIN)	510	12 (DIN)	175	8	115	780	0,524	1,95	11.700

The data regarding bursting pressure and working pressure refer only to the pure hose without couplings. Changes in technical specification without prior notice.



## Applications

suitable for fire brigades, industry, marine, military, technical support

# Uncoated Single Jacket Fire Fighting Hose

**Syntex Signal (orange dyed) | Syntex Signal Extra (orange dyed)  
Syntex Signal Robust (orange dyed)**

This hose quality is in the diameters C/42 mm, C/52 mm and B/75 mm available in the performance levels:

- L1 – Performance Level 1 – Syntex Signal (orange dyed)
- L2 – Performance Level 2 – Syntex Signal Extra (orange dyed)
- L3 – Performance Level 3 – Syntex Signal Robust (orange dyed)

The higher the performance level the higher the abrasion resistance of the hose.

## Construction

- inside: high-quality, very light synthetic rubber on the basis of EPDM
- outside: jacket of 100 % high tenacity synthetic polyester yarn (colour: orange dyed), circular-woven twill weave, warp and weft threads multiple twisted

## Feature

- highly visible because of the fluorescent signal colour in smoke and darkness → active safety  
→ reduces the risk of accidents during the operation
- very light and flexible hose quality
- minimum maintenance
- extremely resistant to aging and ozone and UV
- excellent abrasion resistance
- temperature range from –40 °C up to +100 °C
- minimum friction loss because of very smooth inner lining
- suitable for sea water, hot water, many chemicals

## Approvals/Certificates

- DIN 14811:2008-01+A2:2014-08
- Germanischer Lloyd

Approvals or Certificates mailed to you on demand.



prepared loom for production of orange jacket



OSW hoses can be delivered with international standard coupling systems



**Syntex Signal  
(orange dyed)**

## Technical Details

Diameter in Inch	Diameter in mm	Bursting Pressure in bar	Bursting Pressure in PSI	Working Pressure in bar – 1:3 Safety	Working Pressure in PSI – 1:3 Safety	Working Pressure in bar – 1:4 Safety	Working Pressure in PSI – 1:4 Safety	Weight in g/m (+/- 5 %)	Weight in lbs/ft (+/- 5 %)	Wall Thickness in mm (+/- 0,2 mm)	Theoretical Tensile Strength in kg
<b>Uncoated Single Jacket Fire Fighting Hose (orange dyed)</b>											
1 (Storz)	25	60 (DIN)	870	20	290	16 (DIN)	235	150	0,101	1,65	2.300
1 (Geka)	27	60 (DIN)	870	20	290	16 (DIN)	235	160	0,108	1,65	2.300
1 1/4	32	60 (DIN)	870	20	290	16 (DIN)	235	175	0,118	1,65	2.600
1 1/2	38	60 (DIN)	870	20	290	16 (DIN)	235	205	0,138	1,65	4.200
1 1/2	40	60 (DIN)	870	20	290	16 (DIN)	235	215	0,144	1,65	4.200
1 2/3	42	60 (DIN)	870	20	290	16 (DIN)	235	240	0,161	1,65	4.200
1 3/4	45	60 (DIN)	870	20	290	16 (DIN)	235	245	0,165	1,65	5.200
2	52	60 (DIN)	870	20	290	16 (DIN)	235	295	0,198	1,65	5.800
2 1/6	55	60 (DIN)	870	20	290	16 (DIN)	235	315	0,212	1,75	5.800
2 1/2	64	60 (DIN)	870	20	290	16 (DIN)	235	380	0,255	1,75	7.600
2 1/2	65	60 (DIN)	870	20	290	16 (DIN)	235	385	0,259	1,75	7.600
2 1/2	66	60 (DIN)	870	20	290	16 (DIN)	235	390	0,262	1,85	7.600
2 3/4	70	60 (DIN)	870	20	290	16 (DIN)	235	425	0,286	1,95	8.100
3	75	60 (DIN)	870	20	290	16 (DIN)	235	495	0,333	1,75	8.600
3 1/2	90	35 (DIN)	510	12 (DIN)	175	8	115	580	0,390	1,95	9.100
4	102	35 (DIN)	510	12 (DIN)	175	8	115	660	0,443	1,95	9.500
4 1/3	110	35 (DIN)	510	12 (DIN)	175	8	115	780	0,524	1,95	11.700

The data regarding bursting pressure and working pressure refer only to the pure hose without couplings. Changes in technical specification without prior notice.



## Applications

suitable for fire brigades, industry, marine, military, technical support



production of seamless polyurethane film

## Uncoated Single Jacket Competition Hose

### Syntex Folia (white plain)

#### Construction

- inside: seamless polyurethane film, produced by the two-layer method
- outside: jacket of 100 % high tenacity synthetic polyester yarn (colour: white plain), circular-woven twill weave, warp and weft threads multiple twisted

#### Feature

- excellent as a competitive sport hose (super-light weight and small roll diameter)
- very light and flexible hose quality
- minimum maintenance
- extremely resistant to aging and ozone and UV
- excellent abrasion resistance
- temperature range from -35°C up to +80°C
- minimum friction loss because of very smooth inner lining

#### Approvals/Certificates

- DIN 14811:2008-01+A2:2014-08

Approvals or Certificates mailed to you on demand.



Ø 28 cm

Syntex Folia (white plain)  
weight: 3,6 kg per 15 m C/42 mm-length



Ø 35 cm

Syntex 500 (white plain)  
weight: 4,8 kg per 15 m C/42 mm-length

### Technical Details

Diameter		Bursting Pressure in bar   in PSI	Working Pressure in bar   in PSI	Weight in g/m (+/-5%)	Wall Thickness in mm (+/-0,2 mm)	Theoretical Tensile Strength in kg
in Inch	in mm					
<b>Uncoated Single Jacket Competition Hose</b>						
1 2/3	42	60 (DIN)   870	16 (DIN)   235	165	1,35	4.200
2	52	60 (DIN)   870	16 (DIN)   235	195	1,35	5.800
3	75	60 (DIN)   870	16 (DIN)   235	325	1,45	8.600

The data regarding bursting pressure and working pressure refer only to the pure hose without couplings. Changes in technical specification without prior notice.



Syntex Folia  
(white plain)



change of weft spools in the loom



# Uncoated Single Jacket Wall Hydrant Hose

Syntex WH (white plain)

## Construction

- inside: high-quality, very light synthetic rubber on the basis of EPDM
- outside: jacket of 100 % high tenacity synthetic polyester yarn (colour: white plain), circular-woven twill weave, warp and weft threads multiple twisted

## Feature

- very light and flexible hose quality
- minimum maintenance
- extremely resistant to aging and ozone and UV
- excellent abrasion resistance
- temperature range from  $-40^{\circ}\text{C}$  up to  $+100^{\circ}\text{C}$
- minimum friction loss because of very smooth inner lining
- suitable for sea water, hot water, many chemicals

## Approvals/Certificates

- according DIN EN 14540:2004 (for wall hydrants)
- Approvals or Certificates mailed to you on demand.

## Technical Details

Diameter		Bursting Pressure in bar   in PSI	Proof Pressure in bar   in PSI	Working Pressure in bar   in PSI	Weight in g/m (+/-5%)	Wall Thickness in mm (+/-0,2 mm)	Theoretical Tensile Strength in kg
in Inch	in mm						
<b>Uncoated Single Jacket Wall Hydrant Hose</b>							
1	25	45   652	22,5   326	10   145	130	1,50	2.000
1 2/3	42	45   652	22,5   326	10   145	240	1,65	3.800
2	52	45   652	22,5   326	10   145	290	1,65	4.600

The data regarding bursting pressure and working pressure refer only to the pure hose without couplings. Changes in technical specification without prior notice.



Syntex WH  
(white plain)



process of manufacturing endless hoses allows us to deliver lengths of more than 500 m in one section



permanent quality assurance in the own test laboratory

## Coated Single Jacket Fire Fighting Hose

### Syntex 500 PU (outside coated)

#### Construction

- inside: high-quality, very light synthetic rubber on the basis of EPDM
- jacket of 100 % high tenacity synthetic polyester yarn, circular-woven twill weave, warp and weft threads multiple twisted
- outside: polyurethane coating (standard colour: red; other on request)

#### Feature

- increased abrasion and flame resistance by external coating → better protection for flying sparks
- very light and flexible hose quality
- minimum maintenance
- extremely resistant to aging and ozone and UV
- excellent abrasion resistance
- temperature range from -40°C up to +100°C
- minimum friction loss because of very smooth inner lining
- suitable for sea water, hot water, many chemicals

#### Approvals/Certificates

- DIN 14811:2008-01+A2:2014-08
- BS 6391:2009 Type 2
- Germanischer Lloyd

Approvals or Certificates mailed to you on demand.



Syntex 500 PU (outside coated)

## Technical Details

Diameter in Inch	Diameter in mm	Bursting Pressure in bar	Bursting Pressure in PSI	Working Pressure in bar – 1:3 Safety	Working Pressure in PSI – 1:3 Safety	Working Pressure in bar – 1:4 Safety	Working Pressure in PSI – 1:4 Safety	Weight in g/m (+/- 5 %)	Weight in lbs/ft (+/- 5 %)	Wall Thickness in mm (+/- 0,2 mm)	Theoretical Tensile Strength in kg
<b>Coated Single Jacket Fire Fighting Hose</b>											
1 (Storz)	25	60 (DIN)	870	20	290	16 (DIN)	235	140	0,094	1,50	2.300
1 (Geka)	27	60 (DIN)	870	20	290	16 (DIN)	235	155	0,104	1,50	2.300
1 1/4	32	60 (DIN)	870	20	290	16 (DIN)	235	165	0,111	1,50	2.600
1 1/2	38	60 (DIN)	870	20	290	16 (DIN)	235	205	0,138	1,60	3.200
1 1/2	40	60 (DIN)	870	20	290	16 (DIN)	235	225	0,151	1,60	3.200
1 2/3	42	60 (DIN)	870	20	290	16 (DIN)	235	265	0,178	1,65	4.200
1 3/4	45	60 (DIN)	870	20	290	16 (DIN)	235	280	0,188	1,60	3.800
2	52	60 (DIN)	870	20	290	16 (DIN)	235	315	0,212	1,65	5.800
2 1/6	55	60 (DIN)	870	20	290	16 (DIN)	235	310	0,208	1,65	4.600
2 1/2	64	60 (DIN)	870	20	290	16 (DIN)	235	390	0,262	1,65	5.700
2 1/2	65	60 (DIN)	870	20	290	16 (DIN)	235	395	0,265	1,65	5.700
2 1/2	66	60 (DIN)	870	20	290	16 (DIN)	235	400	0,269	1,65	5.700
2 3/4	70	60 (DIN)	870	20	290	16 (DIN)	235	425	0,286	1,65	6.800
3	75	60 (DIN)	870	20	290	16 (DIN)	235	510	0,343	1,75	8.600
3 1/2	90	35 (DIN)	510	12 (DIN)	175	8	115	615	0,413	1,95	9.100
4	102	35 (DIN)	510	12 (DIN)	175	8	115	695	0,467	1,95	9.500
4 1/3	110	35 (DIN)	510	12 (DIN)	175	8	115	820	0,551	1,95	11.700

The data regarding bursting pressure and working pressure refer only to the pure hose without couplings. Changes in technical specification without prior notice.



### Applications

suitable for fire brigades, industry, marine, military, technical support

# Inside and Outside Rubberlined Fire Fighting Hose

## Syntex Unidur (inside and outside rubberlined)

### Construction

- inside: very smooth for minimum friction loss
- jacket of 100 % high tenacity synthetic polyester yarn, circular woven, embedded in a rubber compound provides optimum protection of the jacket
- high-quality Nitrile/PVC compound is forced through the jacket in the extrusion process (standard colour: red; other on request)
- outside: longitudinal ribs for excellent abrasion resistance

### Feature

- high abrasion resistance and durability by longitudinal ribs  
→ by trouble with a damage of the cover an easily repair is possible
- very light and flexible hose quality
- minimum maintenance
- extremely resistant to aging and ozone and UV
- excellent abrasion resistance
- temperature range from  $-40^{\circ}\text{C}$  up to  $+100^{\circ}\text{C}$
- minimum friction loss because of very smooth inner lining
- suitable for sea water, hot water, many chemicals

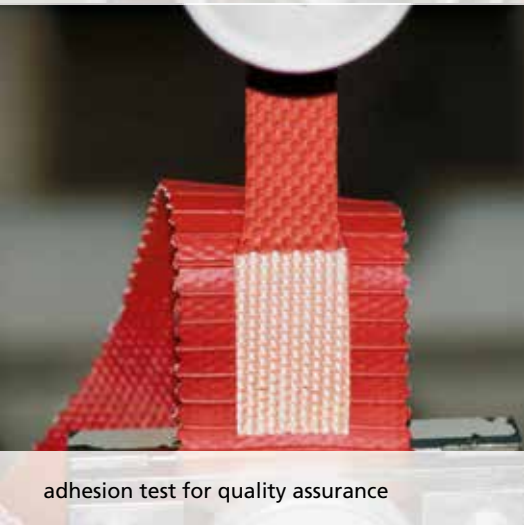
### Approvals/Certificates

- DIN 14811:2008-01+A2:2014-08
- BS 6391:2009 Type 3
- Germanischer Lloyd
- Lloyd's Register of Shipping

Approvals or Certificates mailed to you on demand.



Through-the-weave-extrusion-process



adhesion test for quality assurance



Syntex Unidur  
(inside and outside  
rubberlined)



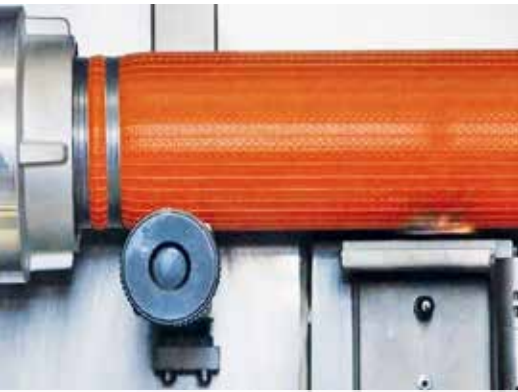
## Technical Details

Diameter in Inch	Diameter in mm	Minimum Bursting Pressure in bar	Minimum Bursting Pressure in PSI	Working Pressure in bar	Working Pressure in PSI	Weight in g/m (+/- 5%)	Weight in lbs/ft (+/- 5%)	Wall Thickness in mm (+/- 0,2 mm)	Theoretical Tensile Strength in kg
<b>Inside and Outside Rubberlined Fire Fighting Hose</b>									
3/4	19	50 (DIN)	725	16 (DIN)	235	190	0,128	2,0	1.700
3/4	20	50 (DIN)	725	16 (DIN)	235	195	0,131	2,0	1.700
3/4	21	50 (DIN)	725	16 (DIN)	235	200	0,134	2,0	1.700
1 (Storz)	25	50 (DIN)	725	16 (DIN)	235	225	0,151	2,0	2.300
1 (Geka)	27	50 (DIN)	725	16 (DIN)	235	235	0,158	2,0	2.300
1 1/4	32	50 (DIN)	725	16 (DIN)	235	290	0,195	2,0	2.600
1 1/2	38	50 (DIN)	725	16 (DIN)	235	310	0,208	2,0	3.000
1 1/2	40	50 (DIN)	725	16 (DIN)	235	325	0,218	2,0	3.000
1 2/3	42	50 (DIN)	725	16 (DIN)	235	335	0,225	2,2	3.000
1 3/4	45	50 (DIN)	725	16 (DIN)	235	355	0,239	2,2	3.300
2	52	50 (DIN)	725	16 (DIN)	235	385	0,259	2,2	3.800
2	55	50 (DIN)	725	16 (DIN)	235	395	0,265	2,2	3.800
2 1/2	64	50 (DIN)	725	16 (DIN)	235	495	0,333	2,3	5.100
2 1/2	65	50 (DIN)	725	16 (DIN)	235	500	0,336	2,3	5.100
2 1/2	66	50 (DIN)	725	16 (DIN)	235	505	0,339	2,3	5.100
2 3/4	70	50 (DIN)	725	16 (DIN)	235	595	0,400	2,3	5.700
3	75	50 (DIN)	725	16 (DIN)	235	680	0,457	2,5	6.900
3 1/2	90	35 (DIN)	510	15	220	850	0,571	2,5	7.600
4	102	35 (DIN)	510	15	220	995	0,669	3,0	8.000
4 1/3	110	35 (DIN)	510	15	220	1.100	0,739	3,0	8.600
5	125	35 (DIN)	510	15	220	1.350	0,907	3,0	12.200
6 (Storz)	150	35 (DIN)	510	12	175	1.600	1,075	3,0	13.000
6 (Perrot)	154	35 (DIN)	510	12	175	1.650	1,109	3,0	13.000
8	205	30	435	10	145	2.250	1,512	3,0	23.000



### Applications

suitable for fire brigades,  
industry, marine, military,  
technical support



flame test in own test laboratory (more than 60 minutes during 900 °C without bursting)



# Inside and Outside Rubberlined Fire Fighting Hose

## Syntex Unidur DRAGON (inside and outside rubberlined)

### Construction

- inside: very smooth for minimum friction loss
- jacket of 100 % high tenacity synthetic polyester yarn, circular woven, embedded in a rubber compound provides optimum protection of the jacket
- special flame resistant mixture of high-quality Nitrile/PVC compound is forced through the jacket in the extrusion process (standard colour: orange; other on request)
- outside: longitudinal ribs for excellent abrasion resistance

### Feature

- excellent heat- and flame-resistant (more than 1 hours with 900° C without burst)
  - perfect for fighting forest fires
- high abrasion resistance and durability by longitudinal ribs
  - by trouble with a damage of the cover an easily repair is possible
- extremely resistant to aging and ozone and UV
- suitable for sea water, hot water, many chemicals

### Technical Details

Diameter		Bursting Pressure in bar   in PSI	Working Pressure in bar   in PSI	Weight in g/m (+/-5%)	Wall Thickness in mm (+/-0,2 mm)	Theoretical Tensile Strength in kg
in Inch	in mm					
<b>Inside and Outside Rubberlined Fire Fighting Hose</b>						
1	25	50 (DIN)   725	16 (DIN)   235	270	2,4	2.300
1 1/2	38	50 (DIN)   725	16 (DIN)   235	370	2,4	3.000
1 3/4	45	50 (DIN)   725	16 (DIN)   235	420	2,6	3.300
2	52	50 (DIN)   725	16 (DIN)   235	455	2,6	3.800
2 1/2	65	50 (DIN)   725	16 (DIN)   235	610	2,8	5.100
2 3/4	70	50 (DIN)   725	16 (DIN)   235	725	2,8	5.700
3	75	50 (DIN)   725	16 (DIN)   235	815	3,0	6.900

The data regarding bursting pressure and working pressure refer only to the pure hose without couplings. Changes in technical specification without prior notice.



Syntex Unidur DRAGON  
(inside and outside  
rubberlined)

# Suction Hose according DIN 14557

## Suction Hose

### Construction

- inside: very smooth black SBR rubber (styrene-butadiene rubber)
- reinforcement: high-strength, pressure-resistant insert with textile cord and spiral (helix)
- outside/cover: very smooth black SBR rubber with corrugated cloth impression
- standard lengths with spiral free sleeves (on request also without sleeves)

### Feature

- minimum maintenance
- extremely resistant to aging and ozone and UV
- excellent abrasion resistance
- temperature range from  $-30^{\circ}\text{C}$  up to  $+70^{\circ}\text{C}$
- minimum friction loss because of very smooth inner lining

### Approvals/Certificates

- DIN EN ISO 14557

Approvals or Certificates mailed to you on demand.

Our suction hoses could be also equipped with couplings handles.



field of application: Fire brigades



used by Technical Relief Service (THW)

## Technical Details

Inside Diameter in mm	Outside Diameter in mm	Weight in g/m (+/-5%)	Wall Thickness in mm	Working Pressure in bar   in PSI	Bursting Pressure in bar   in PSI	Bend Radius ca. in mm
<b>Suction Hose according DIN 14557</b>						
52	62	1.560	5,0	3   45	9   130	260
75	87	2.560	6,0	3   45	9   130	375
102	116	4.050	7,0	3   45	9   130	510
110	124	4.350	7,0	3   45	9   130	550
125	139	5.290	7,0	3   45	9   130	625
150	164	6.290	7,0	3   45	9   130	750

The data regarding bursting pressure and working pressure refer only to the pure hose without couplings. Changes in technical specification without prior notice.



Suction Hose



many constructional variants allow us to influence factors such as bursting pressure or abrasion resistance



production of high-quality pre-vulcanized EPDM-Manchon

# Semi Rigid Quick Attack Booster Hose according DIN EN 1947

**Syntex Monoflex S (blue or orange dyed)**  
**Syntex Monoflex S HD (blue or orange dyed)**

### Construction

- inside: high-quality, very light synthetic rubber on the basis of EPDM (reinforced performance)
- outside: jacket of 100 % high tenacity synthetic polyester yarn (standard colour: blue and orange; other on request), special monofilament yarns in the weft provide dimensional stability and high pressure resistance

### Feature

- lighter than a delivery hose type S (weight saving: ca. 35,0 kg by a D/25mm 50m-length)
- very light and flexible hose quality that is also to handle by one person
- by dimensional stability ready for use even when rolled up
- minimum maintenance
- extremely resistant to aging and ozone and UV
- excellent abrasion resistance
- temperature range from -40°C up to +100°C
- minimum friction loss because of very smooth inner lining
- standard length: 25-50 m (other length on request)
- standard couplings: light alloy storz-C/52mm-couplings, standard binding: stainless steel wire
- on request our hoses will be delivered with kink protection and hand protection

### Approvals/Certificates

- DIN EN 1947:-II-B-5
- Approvals or Certificates mailed to you on demand.

### Technical Details

Inside Diameter in mm	Outside Diameter in mm	Weight in g/m (+/-5 %)	Wall Thickness in mm (+/-0,2 mm)	Working Pressure in bar   in PSI	Bursting Pressure in bar   in PSI
<b>Semi Rigid Quick Attack Booster Hose according DIN EN 1947 – Syntex Monoflex S</b>					
25	ca. 31	281	ca. 2,8	15   217	45   652

Inside Diameter in mm	Outside Diameter in mm	Weight g/m (+/-5 %)	Wall Thickness in mm (+/-0,2 mm)	Working Pressure in bar   in PSI	Bursting Pressure in bar   in PSI
<b>Semi Rigid Quick Attack Booster Hose according DIN EN 1947 – Syntex Monoflex S HD</b>					
25	ca. 31	281	ca. 2,8	40   580	100   1.450 *

\* according DIN 1947, actual Bursting Pressure 160 bar / 2.320 PSI

The data regarding bursting pressure and working pressure refer only to the pure hose without couplings. Changes in technical specification without prior notice



hand protection



anti-kink protection



**Syntex Monoflex 5**  
(orange dyed)



hand protection



anti-kink protection



**Syntex Monoflex 5**  
(blue dyed)



**Applications**  
suitable for fire brigades and  
vehicle manufacturer



semi-rigid quick attack booster hose on reel in fire truck



this hose can be used immediately for a quick attack in coiled position also

# Semi Rigid Quick Attack Booster Hose according DIN EN 1947

## Delivery Hose Type S

### Construction

- inner tube: smooth black SBR rubber (styrene butadiene rubber)
- reinforcement: high tensile textile cord, steel helix
- cover: smooth black SBR rubber with cloth impression

### Feature

- by dimensional stability ready for use even when rolled up
- minimum maintenance
- extremely resistant to aging and ozone and UV
- excellent abrasion resistance
- temperature range from  $-30^{\circ}\text{C}$  up to  $+70^{\circ}\text{C}$
- minimum friction loss because of very smooth inner lining
- standard length: S25–50 m, S32–30 m (other on request)

### Approvals/Certificates

- DIN EN 1947-I-A-1

Approvals or Certificates mailed to you on demand.

## Technical Details

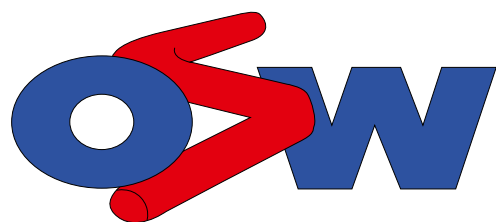
Inside Diameter in mm	Outside Diameter in mm	Weight in g/m (+/-5%)	Wall Thickness in mm	Working Pressure in bar   in PSI	Bursting Pressure in bar   in PSI	Bend Radius ca. in mm
<b>Semi Rigid Quick Attack Booster Hose according DIN EN 1947</b>						
25	37	800	6,0	15   217	45   652	250
32	47	1.260	7,5	15   217	45   652	320

The data regarding bursting pressure and working pressure refer only to the pure hose without couplings. Changes in technical specification without prior notice.



## Delivery Hose Type S





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