

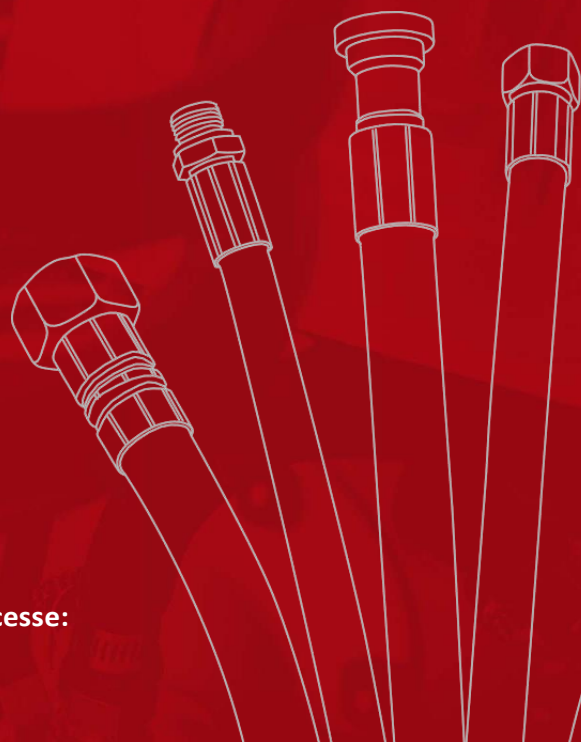


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Hidrauluc



- Catálogo de produtos

TUBOS



hidrauluc@hidrauluc.com.br

(31) 3528-6800

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Tubos de Aço Carbono Sem Costura E235N (ST37.4) de Acordo com a Norma EN 10305-4**Características:**

- 1 - Composição química referente ao aço SAE 1008/1010. Equivalente ST37.4.
 - 2 - Resistência à tração 340 N/mm² mínimo. Limite de escoamento 235 N/mm². Alongamento 25% (50mm) mínimo.
 - 3 - Dimensões e tolerâncias conforme norma DIN 2391 C (ABNT NBR 8476). EN 10305-4 (DIN 2391 C).
 - 4 - Estado de fornecimento Trefilado a frio normalizado em forno de atmosfera controlada - NBK conforme DIN EN 10305-1, parte 2 - DIN 2391 C (ABNT NBR 8476).
 - 5 - Máximas pressões de uKLXlização referem-se à resistência à tração do material. Coeficiente de segurança igual a 4 (Quatro).
 - 6 - Fornecidos em barras de 3 a 6 metros, oleados para proteção anKLX-corrosivas.
- Ref. KLX.....(Ø Externo x Ø Interno) Ex.: KLX100070 - Tubo de aço Ø Externo 10,0 mm X Ø Interno 7,0 mm (Parede 1,5 mm).

REFERÊNCIA	TOLERÂNCIA	Ø EXTERNO MM	Ø INTERNO MM	PAREDE MM	PRESSÃO ESTÁKLXCA (BAR)	PRESSÃO DINÂMICA (BAR)	PESO KG/M
KLX060030	±0,1	06,0	03,0	1,5	549	528	0,166
KLX060040		06,0	04,0	1,0	389	374	0,123
KLX064034	±0,1	06,4	03,4	1,5	-	468	-
KLX064042		06,4	04,2	1,1	-	343	-
KLX080050	±0,1	08,0	05,0	1,5	431	441	0,24
KLX080060		08,0	06,0	1,0	333	289	0,222
KLX095055		09,5	05,5	2,0	-	421	-
KLX095063	±0,1	09,5	06,3	1,6	-	336	-
KLX100060		10,0	06,0	2,0	478	460	0,395
KLX100070	±0,1	10,0	07,0	1,5	373	358	0,314
KLX100080		10,0	08,0	1,0	282	249	0,222
KLX120080		12,0	08,0	2,0	409	393	0,493
KLX120090	±0,08	12,0	09,0	1,5	353	305	0,388
KLX120100		12,0	10,0	1,0	235	210	0,271
KLX127087	±0,08	12,7	08,7	2,0	-	314	-
KLX127097		12,7	09,7	1,5	-	236	-
KLX140100		14,0	10,0	2,0	403	343	0,592
KLX140110	±0,08	14,0	11,0	1,5	302	265	0,462
KLX150110	±0,08	15,0	11,0	2,0	376	323	0,641
KLX150120		15,0	12,0	1,5	282	249	0,499
KLX160100		16,0	10,0	3,0	452	435	0,962
KLX160110	±0,08	16,0	11,0	2,5	386	372	0,832
KLX160120		16,0	12,0	2,0	353	305	0,691
KLX160130		16,0	13,0	1,5	264	234	0,536
KLX180130		18,0	13,0	2,5	392	335	0,956
KLX180140	±0,08	18,0	14,0	2,0	313	274	0,789
KLX180150		18,0	15,0	1,5	235	210	0,61
KLX190140	±0,08	19,0	14,0	2,0	-	263	-
KLX190160		19,0	16,0	1,5	-	157	-
KLX200140		20,0	14,0	3,0	373	358	1,258
KLX200150	±0,08	20,0	15,0	2,5	353	305	1,079
KLX200160		20,0	16,0	2,0	282	249	0,888
KLX220170	±0,08	22,0	17,0	2,5	320	280	1,202
KLX220180		22,0	18,0	2,0	256	228	0,986
KLX250170		25,0	17,0	4,0	394	379	2,072
KLX250190	±0,08	25,0	19,0	3,0	338	294	1,628
KLX250210		25,0	21,0	2,0	226	202	1,134
KLX254194	±0,08	25,4	19,4	3,0	-	236	-
KLX254214		25,4	21,4	2,0	-	157	-
KLX280200		28,0	20,0	4,0	403	343	2,368
KLX280220	±0,08	28,0	22,0	3,0	302	265	1,85
KLX280240		28,0	24,0	2,0	201	182	1,282
KLX300220		30,0	22,0	4,0	376	323	2,565
KLX300240	±0,08	30,0	24,0	3,0	282	249	1,998
KLX300250		30,0	25,0	2,5	235	210	1,695
KLX320220		32,0	22,0	5,0	387	372	3,329
KLX320240	±0,15	32,0	24,0	4,0	353	305	2,762
KLX320270		32,0	27,0	2,5	-	156	-
KLX350270		35,0	27,0	4,0	322	281	3,058
KLX350290	±0,15	35,0	29,0	3,0	242	216	2,367
KLX350300		35,0	30,0	2,5	201	182	2,004
KLX380280		38,0	28,0	5,0	371	319	4,069
KLX380300	±0,15	38,0	30,0	4,0	297	261	3,354
KLX380320		38,0	32,0	3,0	223	200	2,589
KLX420290		42,0	29,0	6,5	-	309	-
KLX420340	±0,2	42,0	34,0	4,0	269	238	3,749
KLX420360		42,0	36,0	3,0	201	182	2,885
KLX420380		42,0	38,0	2,0	-	95	-

Tubos de Aço Carbono Sem Costura E235N (ST37.4) de Acordo com a Norma EN 10305-4 Zincado Branco Livre de Cromo VI (ECOLÓGICO)

- 1 - Composição química referente ao aço SAE 1008/1010. Equivalente ST37.4.
- 2 - Resistência à tração 340 N/mm² mínimo. Limite de escoamento 235 N/mm². Alongamento 25% (50mm) mínimo.
- 3 - Dimensões e tolerâncias conforme norma DIN 2391 C (ABNT NBR 8476). EN 10305-4 (DIN 2391 C).
- 4 - Estado de fornecimento Trefilado a frio normalizado em forno de atmosfera controlada - NBK conforme DIN EN 10305-1, parte 2 - DIN 2391 C (ABNT NBR 8476).
- 5 - Máximas pressões de uKLXlização referem-se à resistência à tração do material. Coeficiente de segurança igual a 4 (Quatro).
- 6 - Fornecidos em barras de 3 a 6 metros, oleados para proteção anKLX-corrossivas.

REFERÊNCIA	TOLERÂNCIA	Ø EXTERNO MM	Ø INTERNO MM	PAREDE MM	PRESSÃO ESTÁKLXCA (BAR)	PRESSÃO DINÂMICA (BAR)	PESO KG/M
KLX060030CF	±0,1	06,0	03,0	1,5	549	528	0,166
KLX060040CF		06,0	04,0	1,0	389	374	0,123
KLX064034CF		06,4	03,4	1,5	-	468	-
KLX064042CF	±0,1	06,4	04,2	1,1	-	343	-
KLX080050CF	±0,1	08,0	05,0	1,5	431	441	0,24
KLX080060CF		08,0	06,0	1,0	333	289	0,222
KLX095055CF		09,5	05,5	2,0	-	421	-
KLX095063CF	±0,1	09,5	06,3	1,6	-	336	-
KLX100060CF		10,0	06,0	2,0	478	460	0,395
KLX100070CF	±0,1	10,0	07,0	1,5	373	358	0,314
KLX100080CF		10,0	08,0	1,0	282	249	0,222
KLX120080CF		12,0	08,0	2,0	409	393	0,493
KLX120090C	±0,08	12,0	09,0	1,5	353	305	0,388
F		12,0	10,0	1,0	235	210	0,271
KLX120100C							
F							
KLX127087CF	±0,08	12,7	08,7	2,0	-	314	-
KLX127097CF		12,7	09,7	1,5	-	236	-
KLX140100CF		14,0	10,0	2,0	403	343	0,592
KLX140110CF	±0,08	14,0	11,0	1,5	302	265	0,462
KLX150110CF	±0,08	15,0	11,0	2,0	376	323	0,641
KLX150120CF		15,0	12,0	1,5	282	249	0,499
KLX160100CF		16,0	10,0	3,0	452	435	0,962
KLX160110CF		16,0	11,0	2,5	386	372	0,832
KLX160120CF	±0,08	16,0	12,0	2,0	353	305	0,691
KLX160130CF		16,0	13,0	1,5	264	234	0,536
KLX180130CF		18,0	13,0	2,5	392	335	0,956
KLX180140CF	±0,08	18,0	14,0	2,0	313	274	0,789
KLX180150CF		18,0	15,0	1,5	235	210	0,61
KLX190140CF	±0,08	19,0	14,0	2,0	-	263	-
KLX190160CF		19,0	16,0	1,5	-	157	-
KLX200140CF		20,0	14,0	3,0	373	358	1,258
KLX200150CF	±0,08	20,0	15,0	2,5	353	305	1,079
KLX200160CF		20,0	16,0	2,0	282	249	0,888
KLX220170CF	±0,08	22,0	17,0	2,5	320	280	1,202
KLX220180CF		22,0	18,0	2,0	256	228	0,986
KLX250170CF		25,0	17,0	4,0	394	379	2,072
KLX250190CF	±0,08	25,0	19,0	3,0	338	294	1,628
KLX250210CF		25,0	21,0	2,0	226	202	1,134
KLX254194CF	±0,08	25,4	19,4	3,0	-	236	-
KLX254214CF		25,4	21,4	2,0	-	157	-
KLX280200CF		28,0	20,0	4,0	403	343	2,368
KLX280220CF	±0,08	28,0	22,0	3,0	302	265	1,85
KLX280240CF		28,0	24,0	2,0	201	182	1,282
KLX300220CF		30,0	22,0	4,0	376	323	2,565
KLX300240CF	±0,08	30,0	24,0	3,0	282	249	1,998
KLX300250CF		30,0	25,0	2,5	235	210	1,695
KLX320220CF		32,0	22,0	5,0	387	372	3,329
KLX320240CF	±0,15	32,0	24,0	4,0	353	305	2,762
KLX320270CF		32,0	27,0	2,5	-	156	-
KLX350270CF		35,0	27,0	4,0	322	281	3,058
KLX350290CF	±0,15	35,0	29,0	3,0	242	216	2,367
KLX350300CF		35,0	30,0	2,5	201	182	2,004
KLX380280CF		38,0	28,0	5,0	371	319	4,069
KLX380300CF	±0,15	38,0	30,0	4,0	297	261	3,354
KLX380320CF		38,0	32,0	3,0	223	200	2,589
KLX420290CF		42,0	29,0	6,5	-	309	-
KLX420340CF	±0,2	42,0	34,0	4,0	269	238	3,749
KLX420360CF		42,0	36,0	3,0	201	182	2,885
KLX420380CF		42,0	38,0	2,0	-	95	-

Tubos de Aço Inoxidável Sem Costura

Características:

1 - Composição química referente ao aço inoxidável AISI 316 / 316L.

2 - Resistência à tração 485 N/mm² mínimo. Limite de escoamento 170 N/mm² mínimo. Alongamento 35% mínimo.

3 -

REFERÊNCIA	TOLERÂNCIA	Ø EXTERNO MM	Ø INTERNO MM	PAREDE MM	PRESSÃO ESTÁTICA (BAR)	PRESSÃO DINÂMICA (BAR)	PESO KG/M
KLX060040	±0,1	06,0	04,0	1,0	406	365	0,125
KLX064044	±0,1	06,4	04,4	1,0	-	364	-
KLX080060	±0,1	08,0	06,0	1,0	347	283	0,225
KLX095075	±0,1	09,5	07,5	1,0	-	233	-
KLX100060		10,0	06,0	2,0	498	427	0,401
KLX100070	±0,1	10,0	07,0	1,5	389	333	0,319
KLX100080		10,0	08,0	1,0	294	231	0,225
KLX1200 80	±0,08	12,0	08,0	2,0	426	365	0,5
KLX1200 96		12,0	09,6	1,2	-	221	-
KLX1200 90		12,0	09,0	1,5	368	283	0,394
KLX127097	±0,08	12,7	09,7	1,5	-	265	-
KLX140110	±0,08	14,0	11,0	1,5	315	-	0,469
KLX150120	±0,08	15,0	12,0	1,5	294	231	0,507
KLX160110		16,0	11,0	2,5	402	345	0,845
KLX160120	±0,08	16,0	12,0	2,0	368	283	0,702
KLX160125		16,0	12,5	1,75	-	243	-
KLX180150	±0,08	18,0	15,0	1,5	245	195	0,619
KLX180140		18,0	14,0	2,0	326	255	0,801
KLX190157	±0,08	19,05	15,75	1,65	-	190	-
KLX200160		20,0	16,0	2,0	294	231	0,902
KLX200150	±0,08	20,0	15,0	2,5	368	283	1,095
KLX200140		20,0	14,0	3,0	389	333	1,277
KLX2201 80	±0,08	22,0	18,0	2,0	267	212	1,001
KLX2201 60		22,0	16,0	3,0	401	-	1,427
KLX250170		25,0	17,0	4,0	411	352	2,104
KLX250190	±0,08	25,0	19,0	3,0	352	273	1,653
KLX250200		25,0	20,0	2,5	294	231	1,408
KLX2542 21	±0,08	25,4	22,1	1,65	-	140	-
KLX2541 94		25,4	19,4	3,0	-	265	-
KLX280220		28,0	22,0	3,0	315	246	1,878
KLX280230	±0,08	28,0	23,0	2,5	263	208	1,596
KLX280240		28,0	24,0	2,0	210	169	1,301
KLX300220		30,0	22,0	4,0	392	300	2,604
KLX300240	±0,08	30,0	24,0	3,0	294	231	2,028
KLX300250		30,0	25,0	2,5	245	195	1,721
KLX320275	±0,15	31,75	27,53	2,11	-	143	-
KLX350310		35,0	31,0	2,0	168	137	2,222
KLX350290	±0,15	35,0	29,0	3,0	252	201	2,403
KLX350300		35,0	30,0	2,5	210	169	2,034
KLX380300	±0,15	38,0	30,0	4,0	310	242	3,405
KLX380280		38,0	28,0	5,0	387	296	4,131
KLX420360	±0,15	42,0	36,0	3,0	210	169	2,929

Dimensões e tolerâncias conforme norma DIN 2465 D4 T3 (ASTM A 269).

4 - Estado de fornecimento recozido.

5 - Máximas pressões de utilização referem-se à resistência à tração do material. Coeficiente de segurança igual a 4 (quatro).

6 - Fornecidos em barras de 4 a 6 metros.

Ref. KLX.....(Ø Externo x Ø Interno) Ex.: KLX150120 - Tubo de inox Ø Externo 15,0 mm X Ø Interno 12,0 mm (Parede 1,5 mm).

Tubos de Aço Inoxidável Com Costura

Características:

- 1 - Composição química referente ao aço inoxidável AISI 316 / 316L
- 2 - Resistência à tração 55 Kg/mm² mínimo. Limite de escoamento 22 Kg/mm² mínimo. Alongamento 50% mínimo.
- 3 - Dimensões e tolerâncias conforme norma DIN 2465 D4 T3 (ASTM A 269).
- 4 - Estado de fornecimento recozido com acabamento brilhante.
- 5 - Máximas pressões de uKLXlização referem-se à resistência à tração do material. Coeficiente de segurança igual a 4 (quatro).
- 6 - Fornecidos em barras de 4 a 6 metros.
Ref. KLXI.....(Ø Externo x Ø Interno) Ex.: KLXI150120 - Tubo de inox Ø Externo 15,0 mm X Ø Interno 12,0 mm (Parede 1,5 mm).

REFERÊNCIA	Ø EXTERNO MM	Ø INTERNO MM	PAREDE MM	PRESSÃO DE TRAB. KGF/CM ²	REFERÊNCIA	Ø EXTERNO MM	Ø INTERNO MM	PAREDE MM	PRESSÃO DE TRAB. KGF/CM ²
KLXI060040	06,0	04,0	1,0	293	KLXI200150	20,0	15,0	2,5	220
KLXI064044	06,4	04,4	1,0	277	KLXI200140	20,0	14,0	3,0	264
KLXI080060	08,0	06,0	1,0	220	KLXI220180	22,0	18,0	2,0	160
KLXI095075	09,5	07,5	1,0	185	KLXI220160	22,0	16,0	3,0	240
KLXI100080	10,0	08,0	1,0	176	KLXI250190	25,0	19,0	3,0	210
KLXI120096	12,0	09,6	1,2	176	KLXI254221	25,4	22,1	1,65	114
KLXI120090	12,0	09,0	1,5	220	KLXI254194	25,4	19,4	3,0	207
KLXI127097	12,7	09,7	1,5	208	KLXI280220	28,0	22,0	3,0	188
KLXI140110	14,0	11,0	1,5	189	KLXI300240	30,0	24,0	3,0	176
KLXI150120	15,0	12,0	1,5	176	KLXI300250	30,0	25,0	2,5	146
KLXI160125	16,0	12,5	1,75	192	KLXI320275	31,75	27,53	2,11	117
KLXI160120	16,0	12,0	2,0	220	KLXI350310	35,0	31,0	2,0	100
KLXI180150	18,0	15,0	1,5	147	KLXI350290	35,0	29,0	3,0	150
KLXI180140	18,0	14,0	2,0	195	KLX420366	42,16	36,62	2,77	115
KLXI190157	19,05	15,75	1,65	152	KLXI420350	42,16	35,04	3,56	148

Tubos de Cobre Trefilado Sem Costura

Características:

- 1 - Composição química referente ao cobre nº 122 (DHP), SAE CA 122, UNS 12200, ABNT NBR 5030 CuDHP.
- 2 - Resistência à tração 28 Kg/mm² mínimo. Limite de escoamento 22 Kg/mm² mínimo. Alongamento 8% (50 mm) mínimo.
- 3 - Dimensões e tolerâncias conforme norma ASTM B 251 (ABNT NBR 5020).
- 4 - Máximas pressões de uKLXlização referem-se à resistência à tração do material. Coeficiente de segurança igual a 4 (quatro).
- 5 - Fornecidos em barras de 3 a 6 metros.
Ref. **KLX.....(Ø Externo x Ø Interno)** Ex.: **KLX100070** - Tubo de cobre Ø Externo 10,0 mm X Ø Interno 7,0 mm (Parede 1,5 mm).

REFERÊNCIA	Ø EXTERNO MM	Ø INTERNO MM	PAREDE MM	PRESSÃO DE TRAB. KGF/CM ²	REFERÊNCIA	Ø EXTERNO MM	Ø INTERNO MM	PAREDE MM	PRESSÃO DE TRAB. KGF/CM ²
KLX040020	04,0	02,0	1,0	390	KLX190140	19,0	14,0	2,5	183
KLX050030	05,0	03,0	1,0	297	KLX190166	19,0	16,6	1,2	83
KLX060040	06,0	04,0	1,0	240	KLX200150	20,0	15,0	2,5	173
KLX064042	06,4	04,2	1,1	249	KLX200170	20,0	17,0	1,5	99
KLX080050	08,0	05,0	1,5	275	KLX220170	22,0	17,0	2,5	156
KLX080060	08,0	06,0	1,0	173	KLX220190	22,0	19,0	1,5	90
KLX095063	09,5	06,3	1,6	243	KLX250190	25,0	19,0	3,0	165
KLX095075	09,5	07,5	1,0	143	KLX250220	25,0	22,0	1,5	78
KLX100064	10,0	06,4	1,8	262	KLX254194	25,4	19,4	3,0	163
KLX100080	10,0	08,0	1,0	135	KLX254224	25,4	22,4	1,5	77
KLX120084	12,0	08,4	1,8	213	KLX280220	28,0	22,0	3,0	146
KLX120100	12,0	10,0	1,0	111	KLX280250	28,0	25,0	1,5	69
KLX127091	12,7	09,1	1,8	199	KLX300240	30,0	24,0	3,0	135
KLX127107	12,7	10,7	1,0	105	KLX300270	30,0	27,0	1,5	65
KLX140100	14,0	10,0	2,0	201	KLX320260	32,0	26,0	3,0	126
KLX140120	14,0	12,0	1,0	94	KLX320290	32,0	29,0	1,5	60
KLX150110	15,0	11,0	2,0	186	KLX350290	35,0	29,0	3,0	115
KLX150130	15,0	13,0	1,0	88	KLX350320	35,0	32,0	1,5	55
KLX160116	16,0	11,6	2,2	193	KLX380320	38,0	32,0	3,0	105
KLX160136	16,0	13,6	1,2	99	KLX380350	38,0	35,0	1,5	50
KLX180136	18,0	13,6	2,2	169	KLX420360	42,0	36,0	3,0	94
KLX180156	18,0	15,6	1,2	88	KLX420390	42,0	39,0	1,5	45

Tubos de Cobre Trefilado Recozido Sem Costura

Características:

- 1 - Composição química referente ao cobre nº 122 (DHP), SAE CA 122, UNS 12200, ABNT NBR 5030 CuDHP.
- 2 - Resistência à tração 20 Kg/mm² mínimo. Limite de escoamento 6 Kg/mm² mínimo. Alongamento 45% (50 mm) mínimo.
- 3 - Dimensões e tolerâncias conforme norma ASTM B 251 (ABNT NBR 5020).
- 4 - Máximas pressões de uKLXlização referem-se à resistência à tração do material. Coeficiente de segurança igual a 4 (quatro).
- 5 - Fornecidos em barras de 3 a 6 metros, não retas a olho nu.
Ref. **KLX.....(Ø Externo x Ø Interno)** Ex.: **KLX120100** - Tubo de cobre Ø Externo 12,0 mm X Ø Interno 10,0 mm (Parede 1 mm).

REFERÊNCIA	Ø EXTERNO MM	Ø INTERNO MM	PAREDE MM	PRESSÃO DE TRAB. KGF/CM ²
KLX040020	04,0	02,0	1,0	280
KLX050030	05,0	03,0	1,0	214
KLX060040	06,0	04,0	1,0	172
KLX064042	06,4	04,2	1,1	179
KLX080060	08,0	06,0	1,0	124
KLX095075	09,5	07,5	1,0	102
KLX100080	10,0	08,0	1,0	97
KLX120100	12,0	10,0	1,0	80
KLX127107	12,7	10,7	1,0	75
KLX140120	14,0	12,0	1,0	67
KLX150130	15,0	13,0	1,0	63
KLX160136	16,0	13,6	1,2	71

REFERÊNCIA	Ø EXTERNO MM	Ø INTERNO MM	PAREDE MM	PRESSÃO DE TRAB. KGF/CM ²
KLX180156	18,0	15,6	1,2	63
KLX190166	19,0	16,6	1,2	59
KLX200170	20,0	17,0	1,5	71
KLX220190	22,0	19,0	1,5	64
KLX250220	25,0	22,0	1,5	56
KLX254224	25,4	22,4	1,5	54
KLX280250	28,0	25,0	1,5	49
KLX300270	30,0	27,0	1,5	46
KLX320290	32,0	29,0	1,5	43
KLX350320	35,0	32,0	1,5	39
KLX380350	38,0	35,0	1,5	36
KLX420390	42,0	39,0	1,5	32

Tubos de Poliamida (NYLON 11)

Características:

- 1 - Composição química referente a Poliamida 11 incolor.
- 2 - Estabilidade dimensional.
- 3 - Extremamente leve: 1,04 g/cm³.
- 4 - Baixa absorção de umidade
- 5 - Compatível quimicamente com a maioria dos agentes químicos.
- 6 - Boa resistência mecânica.
- 7 - Temperatura máxima de trabalho: 150°C.
- 8 - Fornecidos em rolos de até 50 metros.
- 9 - Não necessita uKLXlização de reforço de tubo.
- 10 - Tubos disponíveis nas seguintes cores:

Natural = **NT** - Preto = **BK** - Azul = **BL** - Amarelo = **YL** - Verde = **GN**
Laranja = **OR** - Cinza = **GY** - Violeta = **PP** - Vermelho = **RD**

11 - Fornecimento de tubo com uma cor específica basta acrescentar o sufixo referente a cor desejada.

Ex: Tubo Vermelho - **KLX160120-RD**

Ex: Tubo Amarelo - **KLX160120-YL**

REFERÊNCIA	Ø EXTERNO MM	Ø INTERNO MM	PAREDE MM	PRESSÃO DE TRAB. KGF/CM ²
KLX040025	04,0	02,5	0,75	20
KLX060040	06,0	04,0	1,02	18
KLX064044	06,4	04,36	1,0	15
KLX080060	08,0	06,0	1,0	15
KLX095064	09,5	06,36	1,57	15
KLX100070	10,0	07,0	1,5	15
KLX120090	12,0	09,0	1,5	15
KLX127096	12,7	09,56	1,57	15
KLX160120	16,0	12,0	2,0	15

Ref. **KLX.....(Ø Externo x Ø Interno)**

Ex.: **KLX080070** - Tubo de Poliamida Ø Externo 10,0 mm X Ø Interno 7,0 mm (Parede 1,5 mm).

GRUPO
Hidrauluc



 (31) 3528.6800 | (31) 99941.2572

 Rua da Luz, 87 | Vila Paris | 32.372-130 | Contagem-MG

 www.hidrauluc.com.br | www.kilflex.com.br

