

Control Line & Flatpack

Make energy exploration more efficient, more reliable and safe

Jason Energy Technology Co., Ltd., as the world's leading coiled tubing manufacturer, always aims at "making energy exploration efficient and safe" and is committed to developing and manufacturing of pipe products for the petroleum industry. It adheres to the R&D spirit of tirelessly focusing on R&D and striving for excellence and creating with heart, and continues to improve the core competitiveness of Jason's products.

Jason energy provide global customers with high-quality, abundant and customizable coiled tubing, control line, TEC, TEF and flat pack products to meet the different needs of customers.

Control Line

We supply small-diameter control line for downhole valve control, chemical injection, hydraulic control, etc. We can also supply continuous metal armored pipes containing cables, optical fibers, etc. According to customer needs, we can provide various control line products to meet the needs of operating demands.

Table 1 Control Line Chemical Composition

UNS	Material	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	N
S31603	316L	≤0.03	≤0.75	≤2.00	≤0.045	≤0.03	16.0-18.0	10.0-14.0	2.00-3.00	-	≤0.10
S32205	2205	≤0.03	≤1.00	≤2.00	≤0.03	≤0.02	22.0-23.0	4.5-6.5	3.00-3.50	-	0.14-0.20
S32750	2507	≤0.03	≤0.80	≤1.20	≤0.035	≤0.02	24.0-26.0	6.0-8.0	3.00-5.00	≤0.50	0.24-0.32

Nickel-based Control Line Chemical Composition

UNS	Material	C	Si	Mn	P	S	Cr	Ni	Fe
N08825	825	≤0.05	≤0.5	≤1.0	-	≤0.03	19.5-23.5	38.0-46.0	≥22.0
N06625	625	≤0.1	≤0.5	≤0.5	≤0.015	≤0.015	20.0-23.0	≥58.0	≤5.0
UNS	Material	Ti	Co	Cu	Nb+Ta	Al	Mo	-	-
N08825	825	0.6-1.2	-	1.5-3.0	-	≤0.2	2.5-3.5	-	-
N06625	625	≤0.4	≤1.0	-	3.150-4.150	≤0.4	8.0-10.0	-	-

Annealing Heat Treatment Product PerformanceParameter Table

UNS	Material	Hardness Max	Tensile Strength Min, ksi	Yeild Strength Min, ksi	Elongation Min, %
S31603	316L	192HBW/90HRB	70000	40000	35
S32205	2205	290HBW/30HRC	95000	80000	25
S32750	2507	300HBW/32HRC	116000	90000	15
N06625	N06625	/	120000	60000	30
N08825	N08825	/	85000	40000	30

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Control Line Specification Information Table

Out Diameter		Wall Thickness				
Unit	In	0.028	0.035	0.049	0.065	0.083
In	mm	0.711	0.889	1.2446	1.651	2.11
0.125	3.175	O	-	-	-	-
0.25	6.35	O	O	O	O	-
0.375	9.525	-	O	O	O	O
0.5	12.7	-	O	O	O	O
0.625	15.88	-	-	O	O	O

Note: 1) Marked "O" refers to the main specifications and sizes.
2) Other specifications can be customized according to customer needs.

Control Line Product Performance Data Sheet

Material	Standard Out Diameter	Wall Thickness		Unit Weight	Standard Inner Diameter	Cross-sectional Area	Minimum Yield Ytrength	Minimum Tensile Strength	Pipe load		Test Pressure	Minimum Internal Yield pressure	Collapse Strength
		Standard	Min						Minimum Yield load	Minimum Tensile Load			
UNS	in	in	in	lbs/ft	in	sq.in	psi	psi	lbs	lbs	psi	psi	psi
S31603	0.125	0.028	0.025	0.03	0.069	0.009	40000	70000	300	600	17100	19000	12900
	0.250	0.028	0.025	0.07	0.194	0.020	40000	70000	800	1400	8000	8900	7300
	0.250	0.035	0.032	0.09	0.180	0.024	40000	70000	900	1700	10200	11300	8900
	0.250	0.049	0.044	0.11	0.152	0.031	40000	70000	1200	2200	14800	16400	11700
	0.250	0.065	0.059	0.14	0.120	0.038	40000	70000	1500	2600	18000	22400	14400
	0.375	0.035	0.032	0.13	0.305	0.037	40000	70000	1500	2600	6600	7300	6200
	0.375	0.049	0.044	0.18	0.277	0.050	40000	70000	2000	3500	9500	10500	8400
	0.375	0.065	0.059	0.22	0.245	0.063	40000	70000	2500	4400	12900	14300	10600
	0.375	0.083	0.075	0.27	0.209	0.076	40000	70000	3000	5300	16900	18800	12800
	0.500	0.049	0.044	0.24	0.402	0.069	40000	70000	2800	4900	7000	7700	6500
	0.500	0.065	0.059	0.31	0.370	0.089	40000	70000	3600	6200	9400	10500	8300
	0.500	0.083	0.075	0.38	0.334	0.109	40000	70000	4300	7600	12300	13700	10200
	0.625	0.049	0.044	0.31	0.527	0.089	40000	70000	3500	6200	5500	6100	5300
	0.625	0.065	0.059	0.40	0.495	0.114	40000	70000	4600	8000	7400	8200	6800
	0.625	0.083	0.075	0.49	0.459	0.141	40000	70000	5700	9900	9600	10700	8500
S32205	0.125	0.028	0.025	0.03	0.069	0.009	80000	90000	700	800	18000	38000	25800
	0.250	0.028	0.025	0.07	0.194	0.020	80000	90000	1600	1800	16000	17800	14600
	0.250	0.035	0.032	0.08	0.180	0.024	80000	90000	1900	2100	18000	22600	17700
	0.250	0.049	0.044	0.11	0.152	0.031	80000	90000	2500	2800	18000	32800	23300
	0.250	0.065	0.059	0.13	0.120	0.038	80000	90000	3000	3400	18000	44800	28700
	0.375	0.035	0.032	0.13	0.305	0.037	80000	90000	3000	3400	13100	14600	12400
	0.375	0.049	0.044	0.17	0.277	0.050	80000	90000	4000	4500	18000	21000	16700
	0.375	0.065	0.059	0.22	0.245	0.063	80000	90000	5100	5700	18000	28600	21100
	0.375	0.083	0.075	0.26	0.209	0.076	80000	90000	6100	6900	18000	37500	25600
	0.500	0.035	0.032	0.18	0.430	0.051	80000	90000	4100	4600	9700	10800	9500
	0.500	0.049	0.044	0.24	0.402	0.069	80000	90000	5600	6200	13900	15400	12900
	0.500	0.065	0.059	0.31	0.370	0.089	80000	90000	7100	8000	18000	20900	16600
	0.500	0.083	0.075	0.37	0.334	0.109	80000	90000	8700	9800	18000	27300	20400
	0.625	0.049	0.044	0.30	0.527	0.089	80000	90000	7100	8000	10900	12100	10500
	0.625	0.065	0.059	0.39	0.495	0.114	80000	90000	9100	10300	14800	16400	13600
	0.625	0.083	0.075	0.48	0.459	0.141	80000	90000	11300	12700	18000	21400	16900

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Material	Standard Out Diameter	Wall Thickness		UnitWeight	Standard Inner Diameter	Cross -sectional Area	Minimum Yield Strength	Minimum Tensile Strength	Pipe Load		Test Pressure	Minimum Internal Yield pressure	Collapse Strength
		Standard	Min						Minimum Yield load	Minimum Tensile Load			
UNS	in	in	in	lbs/ft	in	sq.in	psi	psi	lbs	lbs	psi	psi	psi
S32750	0.125	0.028	0.025	0.03	0.069	0.009	90000	116000	800	1000	18000	42800	29000
	0.250	0.028	0.025	0.07	0.194	0.020	90000	116000	1800	2300	18000	20000	16400
	0.250	0.035	0.032	0.09	0.180	0.024	90000	116000	2100	2700	18000	25500	19900
	0.250	0.049	0.044	0.11	0.152	0.031	90000	116000	2800	3600	18000	36900	26200
	0.250	0.065	0.059	0.14	0.120	0.038	90000	116000	3400	4400	18000	50300	32300
	0.375	0.035	0.032	0.14	0.305	0.037	90000	116000	3400	4300	14800	16400	13900
	0.375	0.049	0.044	0.18	0.277	0.050	90000	116000	4500	5800	18000	23600	18700
	0.375	0.065	0.059	0.23	0.245	0.063	90000	116000	5700	7300	18000	32200	23700
	0.375	0.083	0.075	0.27	0.209	0.076	90000	116000	6900	8800	18000	42200	28800
	0.500	0.049	0.044	0.25	0.402	0.069	90000	116000	6200	8100	15600	17300	14500
	0.500	0.065	0.059	0.31	0.370	0.089	90000	116000	8000	10300	18000	23500	18600
	0.500	0.083	0.075	0.38	0.334	0.109	90000	116000	9800	12600	18000	30700	22900
	0.625	0.049	0.044	0.31	0.527	0.089	90000	116000	8000	10300	12300	13600	11900
	0.625	0.065	0.059	0.40	0.495	0.114	90000	116000	10300	13300	16600	18400	15300
	0.625	0.083	0.075	0.50	0.459	0.141	90000	116000	12700	16400	18000	24000	19000
N06625	0.125	0.028	0.025	0.04	0.069	0.009	60000	120000	500	1000	18000	28500	19400
	0.250	0.028	0.025	0.08	0.194	0.020	60000	120000	1200	2300	12000	13300	10900
	0.250	0.035	0.032	0.09	0.180	0.024	60000	120000	1400	2800	15300	17000	13300
	0.250	0.049	0.044	0.12	0.152	0.031	60000	120000	1900	3700	18000	24600	17500
	0.250	0.065	0.059	0.14	0.120	0.038	60000	120000	2300	4500	18000	33600	21600
	0.375	0.035	0.032	0.14	0.305	0.037	60000	120000	2200	4500	9900	11000	9300
	0.375	0.049	0.044	0.19	0.277	0.050	60000	120000	3000	6000	14200	15800	12500
	0.375	0.065	0.059	0.24	0.245	0.063	60000	120000	3800	7600	18000	21500	15800
	0.375	0.083	0.075	0.28	0.209	0.076	60000	120000	4600	9100	18000	28200	19200
	0.500	0.049	0.044	0.26	0.402	0.069	60000	120000	4200	8300	10400	11600	9700
	0.500	0.065	0.059	0.33	0.370	0.089	60000	120000	5300	10700	14100	15700	12400
	0.500	0.083	0.075	0.40	0.334	0.109	60000	120000	6500	13000	18000	20500	15300
	0.625	0.049	0.044	0.33	0.527	0.089	60000	120000	5300	10600	8200	9100	7900
	0.625	0.065	0.059	0.42	0.495	0.114	60000	120000	6900	13700	11100	12300	10200
	0.625	0.083	0.075	0.52	0.459	0.141	60000	120000	8500	17000	14400	16000	12700
N08825	0.125	0.028	0.025	0.04	0.069	0.009	40000	85000	300	700	17100	19000	12900
	0.250	0.028	0.025	0.07	0.194	0.020	40000	85000	800	1700	8000	8900	7300
	0.250	0.035	0.032	0.09	0.180	0.024	40000	85000	900	2000	10200	11300	8900
	0.250	0.049	0.044	0.11	0.152	0.031	40000	85000	1200	2600	14800	16400	11700
	0.250	0.065	0.059	0.14	0.120	0.038	40000	85000	1500	3200	18000	22400	14400
	0.375	0.035	0.032	0.14	0.305	0.037	40000	85000	1500	3200	6600	7300	6200
	0.375	0.049	0.044	0.18	0.277	0.050	40000	85000	2000	4300	9500	10500	8400
	0.375	0.065	0.059	0.23	0.245	0.063	40000	85000	2500	5400	12900	14300	10600
	0.375	0.083	0.075	0.27	0.209	0.076	40000	85000	3000	6500	16900	18800	12800
	0.500	0.049	0.044	0.25	0.402	0.069	40000	85000	2800	5900	7000	7700	6500
	0.500	0.065	0.059	0.32	0.370	0.089	40000	85000	3600	7600	9400	10500	8300
	0.500	0.083	0.075	0.39	0.334	0.109	40000	85000	4300	9200	12300	13700	10200
	0.625	0.049	0.044	0.32	0.527	0.089	40000	85000	3500	7500	5500	6100	5300
	0.625	0.065	0.059	0.41	0.495	0.114	40000	85000	4600	9700	7400	8200	6800
	0.625	0.083	0.075	0.50	0.459	0.141	40000	85000	5700	12000	9600	10700	8500
N08825	0.125	0.028	0.025	0.04	0.069	0.009	65000	95000	600	800	18000	30900	12900
	0.250	0.028	0.025	0.07	0.194	0.020	65000	95000	1300	1900	13000	14400	7300
	0.250	0.035	0.032	0.09	0.180	0.024	65000	95000	1500	2200	16600	18400	8900
	0.250	0.049	0.044	0.11	0.152	0.031	65000	95000	2000	2900	18000	26700	11700
	0.250	0.065	0.059	0.14	0.120	0.038	65000	95000	2500	3600	18000	36400	14400
	0.375	0.035	0.032	0.14	0.305	0.037	65000	95000	2400	3600	10700	11900	6200
	0.375	0.049	0.044	0.18	0.277	0.050	65000	95000	3300	4800	15400	17100	8400
	0.375	0.065	0.059	0.23	0.245	0.063	65000	95000	4100	6000	18000	23300	10600
	0.375	0.083	0.075	0.27	0.209	0.076	65000	95000	4900	7200	18000	30500	12800
	0.500	0.049	0.044	0.25	0.402	0.069	65000	95000	4500	6600	11300	12500	6500
	0.500	0.065	0.059	0.32	0.370	0.089	65000	95000	5800	8400	15300	17000	8300
	0.500	0.083	0.075	0.39	0.334	0.109	65000	95000	7100	10300	18000	22200	10200
	0.625	0.049	0.044	0.32	0.527	0.089	65000	95000	5800	8400	8900	9900	5300
	0.625	0.065	0.059	0.41	0.495	0.114	65000	95000	7400	10900	12000	13300	6800
	0.625	0.083	0.075	0.50	0.459	0.141	65000	95000	9200	13400	15600	17400	8500

TEC/TEF/Flat Pack Products

Extrusion package can be applied such as control lines, cables, fibers and other products, and supplies CL/TEC/TEF/Flat Pack products. According to customer needs, single or multiple channels of different types can be packaged, designed and manufactured to meet the needs of different working conditions. Available packaging materials include but are not limited to the table below.

Table 6 Materials For Packaging, Filling, and Insulation

Material Abbreviation	Applicable Temperature°C	Descriptions
FEPF	-80°C-200°C	luoronated Ethylene Propylene
PFA	-110°C-260°C	Perfluoroalkoxy
ETFE	-60°C-150°C	Ethylene Tetra Fluoro ethylene
PVDF	-30°C-150°C	Polyvinylidene Fluoride
PP	-30°C-150°C	Modified Polypropylene
TPV	-30°C-150°C	Thermo Plastic Vulcanizing
PALL	-30°C-150°C	Nylon11
HDPE	-60°C-100°C	High Density Polyethylene



JASON
Control Line Product Brochure
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