

Fluid Immersion Data in ASTM #2 Oil Sarlink® 3100 series

Fluid Immersion Data
ISO 1817
168 Hours at 85° C in ASTM #2

Grade	Tensile strength			100% Modulus			Elongation at Break			Volume Swell, %	Blank		Hardness, Pt. Ch.
	Blank	After	% Tensile Ret.	Blank	After	% 100% Mod. Ret.	Blank	After	% Elongation Ret.		Blank	After	
	Mpa	Mpa											
S-3160B	4,6	3,7	80,43	3,30	3,30	100,00	336,00	160,00	47,62	33,00	63,00	48,00	-15,00
S-3170B	6,5	5,5	84,62	4,90	4,60	93,88	450,00	244,00	54,22	29,00	79,00	63,00	-16,00
S-3180B	7,5	6,6	88,00	5,50	5,70	103,64	407,00	214,00	52,58	27,00	83,00	72,00	-11,00
S-3190B	12,4	11,3	91,13	9,00	9,50	105,56	528,00	349,00	66,10	14,00	92,00	86,00	-6,00
S-3139DB	16,5	16	96,97	12,00	13,80	115,00	638,00	444,00	69,59	4,00	45,00	41,00	-4,00
S-3145DB	17,5	18,1	103,43	15,50	17,00	109,68	620,00	394,00	63,55	6,00	55,00	50,00	-5,00

168 Hours at 100° C in ASTM #2

Grade	Tensile strength			100% Modulus			Elongation at Break			Volume Swell, %	Blank		Hardness, Pt. Ch.
	Blank	After	% Tensile Ret.	Blank	After	% 100% Mod. Ret.	Blank	After	% Elongation Ret.		Blank	After	
	Mpa	Mpa											
S-3160B	4,6	3,4	73,91	3,30	3,30	100,00	336,00	120,00	35,71	76,00	63,00	45,00	-18,00
S-3170B	6,5	5,4	83,08	4,90	4,70	95,92	450,00	231,00	51,33	67,30	79,00	59,00	-20,00
S-3180B	7,5	6,6	88,00	5,50	5,70	103,64	407,00	218,00	53,56	36,40	83,00	71,00	-12,00
S-3190B	12,4	11,3	91,13	9,00	9,70	107,78	528,00	375,00	71,02	21,60	92,00	86,00	-6,00
S-3139DB	16,5	15,6	94,55	12,00	14,00	116,67	638,00	426,00	66,77	24,00	45,00	39,00	-6,00
S-3145DB	17,5	19	108,57	15,50	17,00	109,68	620,00	491,00	79,19	18,20	55,00	49,00	-6,00

168 Hours at 125° C in ASTM #2

Grade	Tensile strength			100% Modulus			Elongation at Break			Volume Swell, %	Blank		Hardness, Pt. Ch.
	Blank	After	% Tensile Ret.	Blank	After	% 100% Mod. Ret.	Blank	After	% Elongation Ret.		Blank	After	
	Mpa	Mpa											
S-3160B	4,6	3,2	69,57	3,30	3,30	100,00	336,00	110,00	32,74	90,00	63,00	38,00	-25,00
S-3170B	6,5	5,4	83,08	4,90	4,70	95,92	450,00	150,00	33,33	86,00	79,00	52,00	-27,00
S-3180B	7,5	6,3	84,00	5,50	5,40	98,18	407,00	198,00	48,65	48,90	83,00	63,00	-20,00
S-3190B	12,4	10,9	87,90	9,00	8,70	96,67	528,00	300,00	56,82	36,00	92,00	82,00	-10,00
S-3139DB	16,5	16,1	97,58	12,00	13,10	109,17	638,00	391,00	61,29	28,10	45,00	35,00	-10,00
S-3145DB	17,5	19,5	111,43	15,50	17,30	111,61	620,00	352,00	56,77	26,10	55,00	45,00	-10,00

168 Hours at 150° C in ASTM #2

Grade	Tensile strength			100% Modulus			Elongation at Break			Volume Swell, %	Blank		Hardness, Pt. Ch.
	Blank	After	% Tensile Ret.	Blank	After	% 100% Mod. Ret.	Blank	After	% Elongation Ret.		Blank	After	
	Mpa	Mpa											
S-3160B	4,6	2,5	54,35	3,30	0,00	0,00	336,00	58,00	17,26	60,00	63,00	30,00	-33,00
S-3170B	6,5	4,1	63,08	4,90	0,00	0,00	450,00	88,00	19,56	112,00	79,00	40,00	-39,00
S-3180B	7,5	5,7	76,00	5,50	5,50	100,00	407,00	130,00	31,94	57,00	83,00	54,00	-29,00
S-3190B	12,4	10,6	85,48	9,00	8,60	95,56	528,00	188,00	35,61	48,00	92,00	74,00	-18,00
S-3139DB	16,5	15,6	94,55	12,00	12,10	100,83	638,00	225,00	35,27	57,00	45,00	23,00	-22,00
S-3145DB	17,5	19,2	109,71	15,50	15,10	97,42	620,00	234,00	37,74	60,00	55,00	32,00	-23,00

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