



Pentosin CHF 11S Hydraulic Fluid

2.	Effect on different Elastomere Types	Remarks and Test-Methods
2.1	VW-Reference-Elastomeres after aging 96 h at 140°C , Specimen S 3A	TL-VW 521 46
2.1.1	FKM AK6 Hardness-A-Change, DP -1 Tensile Strength Chg., % -7,7 Elongation Change, % -10 Weight Change, % +0,5	Type: FKM
2.1.2	Hypalon 18A/181 Hardness-A-Change, DP -2 Tensile Strength Chg., % -10 Elongation Change, % -32 Weight Change, % +5,2	Type: CSM
2.1.3	Therban N73 Hardness-A-Change, DP -8 Tensile Strength Chg., % -9,8 Elongation Change, % -13 Weight Change, % +6,5	Type: H-NBR
2.1.4	ACM 7503 Hardness-A-Change, DP -3 Tensile Strength Chg., % +5,2 Elongation Change, % -17 Weight Change, % +2,7	Type: ACM
2.1.5	Vamac D 7292/019A Hardness-A-Change, DP 0 Tensile Strength Chg., % -3,2 Elongation Change, % -9,8 Weight Change, % +6,1	Type: AEM
2.1.6	after aging 96 h at 120°C , Specimen S 3A NBR 28 Hardness-A-Change, DP -6 Tensile Strength Chg., % -7,7 Elongation Change, % -24 Weight Change, % +5,3	Type: NBR



CHF 11S		Remarks and Test- Methods
2.2	PSA-Reference-Elastomeres after 2 days at 105°C , Specimen S 2	
2.2.1	HN 574 Hardness-A-Change, DP -1 300% Modulus Change +8,3 Tensile Strength Chg., % -16 Elongation Change, % -25 Volume Change, % +2,6	Type: NBR
2.2.2	HN 61 Hardness-A-Change, DP +5 300% Modulus Change --- Tensile Strength Chg., % -19 Elongation Change, % -58 Volume Change, % -6,2	Type: NBR
2.2.3	HN 89 Hardness-A-Change, DP -1 50% Modulus Change +15 Tensile Strength Chg., % -21 Elongation Change, % -36 Volume Change, % -0,6	Type: NBR
2.2.4	HC 770 Hardness-A-Change, DP 0 100% Modulus Change +18 Tensile Strength Chg., % -18 Elongation Change, % -36 Volume Change, % +0,6	Type: CR
2.2.5	HC 51 Hardness-A-Change, DP -8 300% Modulus Change -12 Tensile Strength Chg., % -16 Elongation Change, % -7,4 Volume Change, % +6,2	Type: CR



CHF 11S		Remarks and Test- Methods
2.2.6	<p>HC 88</p> <p>Hardness-A-Change, DP -13 50% Modulus Change -27 Tensile Strength Chg., % -27 Elongation Change, % -19 Volume Change, % +19,2</p>	Type: CR
2.2.7	<p>8D 201</p> <p>Hardness-A-Change, DP -4 50% Modulus Change -13 Tensile Strength Chg., % -16 Elongation Change, % -21 Volume Change, % +4,9</p>	Type: CSM
2.2.8	<p>after aging 3 days at 130°C, Specimen S2</p> <p>HU 72</p> <p>Hardness-A-Change, DP -7 300% Modulus Change -35 Tensile Strength Chg., % -1,5 Elongation Change, % +46 Volume Change, % +2,2</p>	Type: AU
2.2.9	<p>Desmopan 385</p> <p>Hardness-A-Change, DP -8 300% Modulus Change +6,3 Tensile Strength Chg., % -42 Elongation Change, % -2,2 Volume Change, % +1,1</p>	Type: AU
2.2.10	<p>after aging 7 days at 125°C, Specimen S2</p> <p>8 DT 1724</p> <p>IRHD-Change, DP -3 300% Modulus Change +5 Tensile Strength Chg., % 0 Elongation Change, % -11 Volume Change, % +5</p>	Type: H-NBR



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2.2.11	CSM 47	Type: CSM
	IRHD-Change, DP	-10
	100% Modulus Change	+32
	Tensile Strength Chg., %	-0,3
	Elongation Change, %	-27
	Volume Change, %	+15
2.2.12	DF 701	Type: FKM
	IRHD-Change, DP	-1
	100% Modulus Change	-0,2
	Tensile Strength Chg., %	-7
	Elongation Change, %	-0,5
	Volume Change, %	+0,6
2.3	Nippon-Zeon-Elastomeres	
	after aging 500h at 150°C	
2.3.1	Zetpol 2010	Type: H-NBR
	Hardness-A-Change, DP	-4
	100% Modulus Change	+13
	Tensile Strength Chg., %	0
	Elongation Change, %	-12
	Volume Change, %	+7
2.3.2	Zetpol 3110	Type: H-NBR
	Hardness-A-Change, DP	-10
	100% Modulus Change	+4
	Tensile Strength Chg., %	-11
	Elongation Change, %	-22
	Volume Change, %	+13
2.3.3	Zetpol 4110	Type: H-NBR
	Hardness-A-Change, DP	-16
	100% Modulus Change	-12
	Tensile Strength Chg., %	-15
	Elongation Change, %	-20
	Volume Change, %	+23



CHF 11S		Remarks and Test- Methods
2.4	Parker-Hannifin-Elastomeres after aging 1000h at 125°C	
2.4.1	N 8557-80	Type: H-NBR
	Hardness-A-Change, DP +2	
	100% Modulus Change ---	
	Tensile Strength Chg., % -3,5	
	Elongation Change, % -12	
	Volume Change, % +2,7	
2.5	Du Pont-Elastomeres after aging 1008h at 125°C	
2.5.1	Vamac DLS	Type: AEM
	Hardness-A-Change, DP +1	
	100% Modulus Change +33	
	Tensile Strength Chg., % +10	
	Elongation Change, % -16	
	Volume Change, % +3,5	
2.5.2	Vamac G/20	Type: AEM
	Hardness-A-Change, DP -9	
	100% Modulus Change +33	
	Tensile Strength Chg., % -6	
	Elongation Change, % -31	
	Volume Change, % +13,1	
2.5.3	Vamac G/GLS	Type: AEM
	Hardness-A-Change, DP -2	
	100% Modulus Change +43	
	Tensile Strength Chg., % +7	
	Elongation Change, % -21	
	Volume Change, % +8	
2.5.4	Vamac GLS	Type: AEM
	Hardness-A-Change, DP +2	
	100% Modulus Change +79	
	Tensile Strength Chg., % +13	
	Elongation Change, % -26	
	Volume Change, % +1,6	