



## Pentosin CHF 11S Hydraulic Fluid

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



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



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2.2.6	<p><b>HC 88</b></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><b>8D 201</b></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 <b>130°C</b>, Specimen S2</p> <p><b>HU 72</b></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><b>Desmopan 385</b></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 <b>125°C</b>, Specimen S2</p> <p><b>8 DT 1724</b></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	<b>CSM 47</b> IRHD-Change, DP -10 100% Modulus Change +32 Tensile Strength Chg., % -0,3 Elongation Change, % -27 Volume Change, % +15	Type: CSM
2.2.12	<b>DF 701</b> IRHD-Change, DP -1 100% Modulus Change -0,2 Tensile Strength Chg., % -7 Elongation Change, % -0,5 Volume Change, % +0,6	Type: FKM
<b>2.3</b>	<b>Nippon-Zeon-Elastomeres</b> after aging 500h at <b>150°C</b>	
2.3.1	<b>Zetpol 2010</b> Hardness-A-Change, DP -4 100% Modulus Change +13 Tensile Strength Chg., % 0 Elongation Change, % -12 Volume Change, % +7	Type: H-NBR
2.3.2	<b>Zetpol 3110</b> Hardness-A-Change, DP -10 100% Modulus Change +4 Tensile Strength Chg., % -11 Elongation Change, % -22 Volume Change, % +13	Type: H-NBR
2.3.3	<b>Zetpol 4110</b> Hardness-A-Change, DP -16 100% Modulus Change -12 Tensile Strength Chg., % -15 Elongation Change, % -20 Volume Change, % +23	Type: H-NBR



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