



Elad Limited liability company

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| Buyer: Bergin South Trading Ltd | | | Seller: Elad LLC | |
|---------------------------------|------------------------------|---|-------------------------|---------------|
| Bergin Item | | BFW10-1SN | Test Date: Mar 10, 2017 | |
| Specification & Size | | 1SN 3/8" | Test Standard | EN853 |
| NO.E1 | Test Items | Test Standard | Test Result | Item Judgment |
| 1 | Material | NBR content should more than 40%, Carbon content should less than 15% | NBR 45% Carbon 10% | Qualified |
| 2 | Inside Diameter | Between 9,3 mm ~ 10,1 mm | 10,0 mm | Qualified |
| 3 | Outside Diameter | Should not exceed 18,1 mm | 17,2 mm | Qualified |
| 6 | Working Pressure | Max 18,0 MPa | 18,0 MPa | Qualified |
| 7 | Proof Pressure | Max 36 MPa | 36 MPa | Qualified |
| 8 | Bursting Pressure | Max 72 MPa | 72 MPa | Qualified |
| 9 | Bend Rate | Mini 130 mm | 130 mm | Qualified |
| 11 | Length | Each roll should be in 50 Meters length | 50 Meters | Qualified |
| 12 | Impulse test | According to EN853, test temperature 100°C. The hose can undertake at least 150000 times impulse and should not leak or crack. | Pass | Qualified |
| 13 | Cold Flexibility | According to EN853, testing in -40°C the inner and outer rubber should not crack. Back to the normal temperature then pressure testing, the hose should not leak or crack | Pass | Qualified |
| 14 | Vacuum Resistance | According to EN853, testing the hydraulic hose and its hose assemblies, the Max negative pressure should be -0.8 Bar | -0,8 Bar | Qualified |
| 15 | Abrasion resistance | For 1SN hydraulic hose, according to EN853, vertical pressure (25±0.5)N, after 2000 times the abrasion should not more than 0.5g | 0,3 g | Qualified |
| 17 | Adhesion between Components | AS ISO8033 ,the adhesion between components shall be over 2.5KN/M | 2.7KN/M | Qualified |
| 18 | Oil resistance | According to ISO1817, soak the inner rubber into 100°C oil for 168 hours, it should not shrink or expand more than 25% | 20% | Qualified |
| | | According to ISO 1817, soak the outer rubber into 70°C oil for 168 hours, it should not shrink or expand for more than 100% | 60% | |
| 19 | Water-based fluid resistance | As ISO1817, soak the hose lining and cover into 70°C test liquid for 168 hours made up of 1:2 distilled water and ethanediol, test the lining and cover should no shrinkage and the expand for cover should less than 25% and 100% for lining | Pass | Qualified |
| 20 | Water resistance | As ISO1817, soak the hose into 70°C water for 168 hours, test the lining and cover should no shrinkage and the expand for lining should less than 25% and 100% for Cover | Cover 90% Lining 20% | |
| 21 | Ozone resistance | According to EN853 first method, enlarge to two times the outer cover should not leak or crack. | Pass | Qualified |
| 22 | Concentricity | As EN 24671 , the concentricity of hose for Max variation between ID ~ OD is 0.8 and between ID ~ Reinforce is 0.4 | 0.8/0.4 | Qualified |