

ISO 7745:2010-12 (E)

Hydraulic fluid power - Fire-resistant (FR) fluids - Requirements and guidelines for use

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Terms and definitions	1
3 Hydraulic systems -- Fire hazards	1
3.1 General	1
3.2 Fault conditions	1
3.3 Sources of ignition	2
4 Hydraulic systems -- General precautions	2
4.1 Assembly work	2
4.2 Pipework and hoses	2
4.3 Seals and gaskets	2
4.4 High fluid temperatures	3
5 Requirements for fire-resistant fluids	3
5.1 General fluid requirements	3
5.2 Other fluid properties which may impact on system design	4
6 Characteristics of fire-resistant hydraulic fluids and factors affecting their selection	4
6.1 General	4
6.2 Characteristics of fluids in different categories	5
7 Installation of hydraulic circuits	16
7.1 Reservoir	16
7.2 Pipework and hoses	16
7.3 Pump suction	16
7.4 Strainers and filters	17
7.5 Equipment performance	17
8 Changing the fluid in a hydraulic system	17
8.1 General	17
8.2 Draining and cleaning the circuit	18
8.3 Flushing and draining the circuit	18
8.4 Filling and re-commissioning the circuit	19
8.5 Appropriate flushing fluids	19
9 Handling	22
9.1 Safety data sheets	22
9.2 Handling procedures	22
9.3 Storage	22
Bibliography	23