

## OGR™

### OIL RESISTANT, OIL RESISTANT AND NON-FLAMMABLE, OIL AND HIGH TEMPERATURE RESISTANT

LUFH OGR™, conveyor belts are oil-resistant, non-flammable, oil and high-temperature resistant and are used for conveying bulk materials of any grain size containing oil or organic and mineral grease.

They are composed of 2 to 5 plies of fabric, protected with rubber covers on the carry and roller side surfaces, as well as rubber edges. A rubber layer is placed between the fabric plies in the carcass.

In terms of design, the belt dimensions, belt elements and dimensional tolerances, rubber-fabric ply joints and strength parameters, our belts comply with ISO 14890 standard. Depending on its type, the oil-resistant conveyor belt meets the requirements of the Safety Category 1 or 2A or 2B, as referred to in ISO 12882 standard.

To protect the carcass against temperature increase, the oil and heat resistant **OGR-T100** belts are manufactured with rubber covers of 4+2 mm as minimum recommended thickness and the oil and heat resistant **OGR-T150** belts with rubber covers of 5+2 mm as minimum recommended thickness.

Generally, oil resistant, oil proof and non-flammable rubber fabric conveyor belts are made of EP (polyester-polyamide) fabric plies. At customer's request, the belts can be made of PP (polyamide-polyamide) fabric.

**“LUFH OGR™, conveyor belts are oil-resistant, non-flammable”**



**TABLE 3.1** Physical and mechanical properties of **OGR™** conveyor belts, oil resistant, oil proof and non-flammable, oil and high temperature resistant.

LUFH VALUES							Equivalent DIN 22101	Equivalent ISO 14890
LUFH QUALITY	Tensile Strength, min. (TS) [Mpa]	Elongation at break, min. (Eb) [%]	Abrasion Resistance , max. [mm <sup>3</sup> ]	Security Category	Permissible Temperature [°C]			
OGR	15	350	200	1	- 25	60	G	-
OGR-2				1	- 25	60	G	-
OGR-K				2A	- 20	60	G/S/K	-
OGR-2K				2A, 2B	- 20	60	G/S/K	-
OGR-T100				1	- 25	100	G/T	-
OGR-T150				1	- 25	150	G/T	-
LUFH QUALITY	TECHNICAL FEATURES							
OGR	Oil resistant covers.							
OGR-2	Oil resistant covers and carcasses.							
OGR-K	Oil resistant and non-flammable covers, used in fire hazard surroundings.							
OGR-2K	Oil resistant and non-flammable covers and carcasses, used in environments with fire hazards.							
OGR-T100	Oil resistant covers used to transport high temperature materials up to +100 °C, are manufactured with rubber covers of 4 + 2 mm as the minimum recommended thickness.							
OGR-T150	Oil resistant covers used for the transport of high temperature materials up to +150 °C, are made of rubber covers with a minimum recommended thickness of 5 + 2 mm.							





**TABLE 3.2** Manufactured range of **OGR™**, conveyor belts, oil resistant and non-flammable, oil and high temperature resistant, EP type, includes standard width, weight, carcass thickness and minimum pulley diameters.

BELT STRENGTH / N°. OF PLYS	Standard Belt Width [mm] <sup>1</sup>		Approximate Carcass Thickness S3, Max.[mm]		Approximate Carcass Weight [kg/m <sup>2</sup> ]						Minimum Pulley Diameter EP [mm].					
	Min.	Max.	OGR OGR-2	OGR-K, OGR-2K, OGR-T100, OGR-T150	OGR	OGR-2	OGR-K	OGR-2K	OGR-T100	OGR-T150	OGR			OGR-2, OGR-K, OGR-2K, OGR-T100, OGR-T150		
											A	B	C	A	B	C
400/3	500	1400	3,6	4,2	4,8	5,7	6,1	6,1	5,5	5,5	400	315	250	400	315	250
500/3	500	1400	3,6	4,2	4,8	5,7	6,1	6,1	5,5	5,5	400	315	250	400	315	250
630/3	500	1800	4,5	5,1	5,3	6,1	6,6	6,5	6	5,9	500	400	315	500	400	315
630/4	500	1400	4,8	5,6	6,4	7,5	8,2	8,1	7,3	7,3	500	400	315	630	500	400
800/3	500	1800	5,1	5,7	5,7	6,5	7	7	6,4	6,4	500	400	315	630	500	400
800/4	500	1800	6	6,8	7	7,1	8,8	8,7	7,9	7,9	630	500	400	800	630	500
800/5	500	1400	6	7	8	9,4	10,2	10,1	9,2	9,1	630	500	400	800	630	500
1000/3	650	1800	5,4	6	6,4	7	7,7	7,7	7,1	7	630	500	400	630	500	400
1000/4	650	1800	6,8	7,6	7,5	8,7	9,4	9,3	8,5	8,5	800	630	500	800	630	500
1000/5	650	1800	7,5	8,5	8,8	10,1	11	10,9	9,9	9,9	800	630	500	1000	800	630
1250/3	650	1800	6,9	6,9	8,1	8,2	8,8	8,8	8	8	800	630	500	800	630	500
1250/4	650	1800	7,2	8	8,5	9,3	10,3	10,3	9,4	9,4	800	630	500	800	630	500
1250/5	650	1800	8,5	9,5	9,4	10,8	11,7	11,6	10,6	10,5	1000	800	630	1000	800	630
1400/4	800	1800	8,4	8,4	10	10,2	10,9	10,9	9,9	9,9	1000	800	630	1000	800	630
1600/4	1000	1800	9,2	9,2	10,8	10,9	11,7	11,7	10,7	10,7	1000	800	630	1000	800	630

<sup>1</sup> The types and widths of the belts, other than those determined in Table 3.2, must be agreed with our factory. La **TABLE 3.2** shows the recommended minimum pulley diameters [mm] for belts in the 60 to 100% tension range, specified according to DIN 22101 standard: **A:** Drive pulleys and other pulleys in the high belt tension diameter. **B:** Deflection pulleys and other pulleys in the low belt tension range. **C:** Support pulleys (change in the direction of belt movement ≤ 30 degrees).