

November, 2020

Dear valued NEMO customer,

NEMO sleeping bag temperatures communicated below are certified to the ISO 23537-1 standard which supersedes EN 13537 as of 2016. The ISO 23537-1 standard is a thermal manikin test which gives results for classifications of user cold tolerance: comfort, lower limit, and extreme. These temperature classifications are based on average male and female users and are intended to guide typical consumers in choosing the right bag for their personal cold tolerance and intended use. The test is based on the user utilizing a sleeping pad, tent and a single base layer of thermal underwear.

The three classifications or ratings are as follows:

- Comfort temperature (Tcomf): Lower limit of the comfort range down to which a sleeping bag user with a relaxed posture such as lying on the back is globally in thermal equilibrium and not feeling cold (based on an average female in standard conditions of use).
- Limit temperature (Tlim): Lower limit at which a sleeping bag user with a curled-up body posture is globally in thermal equilibrium and not feeling cold (based on an average male in standard conditions of use. The temperature is lower because the metabolic rate used in the equation for a male is higher than that used in the equations for a female, based on physiology.)
- Extreme temperature (Text): Lower extreme temperature where the risk of injury or death by hypothermia occurs (related to a standard female with a curled up posture in a situation of high cold stress with shivering).

Sleeping bag name	T-Comfort (F)	T-Comfort (C)	T-Limit (F)	T-Limit (C)	T-Extreme (F)	T-Extreme (C)
Riff™ 15 Men's Reg	28.0	-2	16.0	-9	-17.0	-27
Riff™ 15 Men's Long	28.0	-2	16.0	-9	-17.0	-27
Riff™ 30 Men's Reg	40.0	4	29.0	-2	-1.0	-18
Riff™ 30 Men's Long	40.0	4	29.0	-2	-1.0	-18
Riff™ 15 Women's Reg	15.0	-9	3.0	-16	-33.0	-36
Riff™ 15 Women's Long	15.0	-9	3.0	-16	-33.0	-36
Riff™ 30 Women's Reg	31.0	-1	21.0	-6	-10.0	-23
Riff™ 30 Women's Long	31.0	-1	21.0	-6	-10.0	-23
Disco™ 15 Men's Reg	25.0	-4	14.0	-10	-21.0	-29
Disco™ 15 Men's Long	25.0	-4	14.0	-10	-21.0	-29
Disco™ 30 Men's Reg	41.0	5	31.0	-1	-1.0	-18
Disco™ 30 Men's Long	41.0	5	31.0	-1	-1.0	-18
Disco™ 15 Women's Reg	17.0	-8	5.0	-15	-31.0	-35
Disco™ 15 Women's Long	17.0	-8	5.0	-15	-31.0	-35
Disco™ 30 Women's Reg	31.0	-1	20.0	-7	-14.0	-26
Disco™ 30 Women's Long	31.0	-1	20.0	-7	-14.0	-26
Kayu™ Men's 15 Reg	27.0	-3	17.0	-8	-13.0	-25
Kayu™ Men's 15 Long	27.0	-3	17.0	-8	-13.0	-25
Kayu™ Men's 30 Reg	40.0	4	31.0	-1	3.0	-16
Kayu™ Men's 30 Long	40.0	4	31.0	-1	3.0	-16
Kayu™ Women's 15 Reg	18.0	-8	6.0	-14	-25.0	-32
Kayu™ Women's 15 Long	18.0	-8	6.0	-14	-25.0	-32
Kayu™ Women's 30 Reg	33.0	1	23.0	-5	-7.0	-22
Kayu™ Women's 30 Long	33.0	1	23.0	-5	-7.0	-22



Sonic™ 0 Short	14.0	-10	0.0	-18	-33.0	-36
Sonic™ 0 Reg	14.0	-10	0.0	-18	-33.0	-36
Sonic™ 0 Long	14.0	-10	0.0	-18	-33.0	-36
Sonic™ -20 Reg	N/A	N/A	N/A	N/A	N/A	N/A
Sonic™ -20 Long	N/A	N/A	N/A	N/A	N/A	N/A
Forte™ 20 Men's Reg	32.0	0	22.0	-6	-8.0	-22
Forte™ 20 Men's Long	32.0	0	22.0	-6	-8.0	-22
Forte™ 20 Men's Long	32.0	0	22.0	-6	-8.0	-22
Forte™ 35 Men's Reg	40.0	4	31.0	-1	3.0	-16
Forte™ 35 Men's Long	40.0	4	31.0	-1	3.0	-16
Forte™ 20 Women's Reg	20.0	-7	10.0	-12	-20.0	-29
Forte™ 20 Women's Long	20.0	-7	10.0	-12	-20.0	-29
Forte™ 35 Women's Reg	32.0	0	22.0	-6	-8.0	-22
Forte™ 35 Women's Long	32.0	0	22.0	-6	-8.0	-22
Tempo™ 20 Men's Reg	31.0	-1	19.0	-7	-13.0	-25
Tempo™ 20 Men's Long	31.0	-1	19.0	-7	-13.0	-25
Tempo™ 35 Men's Reg	40.0	4	31.0	-1	3.0	-16
Tempo™ 35 Men's Long	40.0	4	31.0	-1	3.0	-16
Tempo™ 50 Men's Reg	55.0	13	44.0	7	15.0	-9
Tempo™ 50 Men's Long	55.0	13	44.0	7	15.0	-9
Tempo™ 20 Women's Reg	23.0	-5	12.0	-11	1.0	-17
Tempo™ 20 Women's Long	23.0	-5	12.0	-11	1.0	-17
Tempo™ 35 Women's Reg	31.0	-1	19.0	-7	-13.0	-25
Tempo™ 35 Women's Long	31.0	-1	19.0	-7	-13.0	-25
Tempo™ 50 Women's Reg	45.0	7	36.0	2	6.0	-14
Tempo™ 50 Women's Long	45.0	7	36.0	2	6.0	-14
Jazz™ 20	N/A	N/A	N/A	N/A	N/A	N/A
Jazz Luxury™ 20	N/A	N/A	N/A	N/A	N/A	N/A
Jazz™ Duo 20	N/A	N/A	N/A	N/A	N/A	N/A
Jazz™ Lux. Duo 20	N/A	N/A	N/A	N/A	N/A	N/A



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VP of Product

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Date

