

Carbon Footprinting Emissions Report

Quorn Foods take seriously the responsibility to ensure we are managing our own impacts on the environment. That is why in 2012 we began calculating the carbon footprints for our products in line with internationally recognised standards so we can understand their impacts and set goals to reduce these. Using a science led approach to environmental research and continuous analysis of our entire supply chain, we are committed to ambitious targets and look forward to tracking our continuous improvement.

Quorn Foods is the first global meat-alternative brand to achieve third-party verification of its product carbon footprint figures.

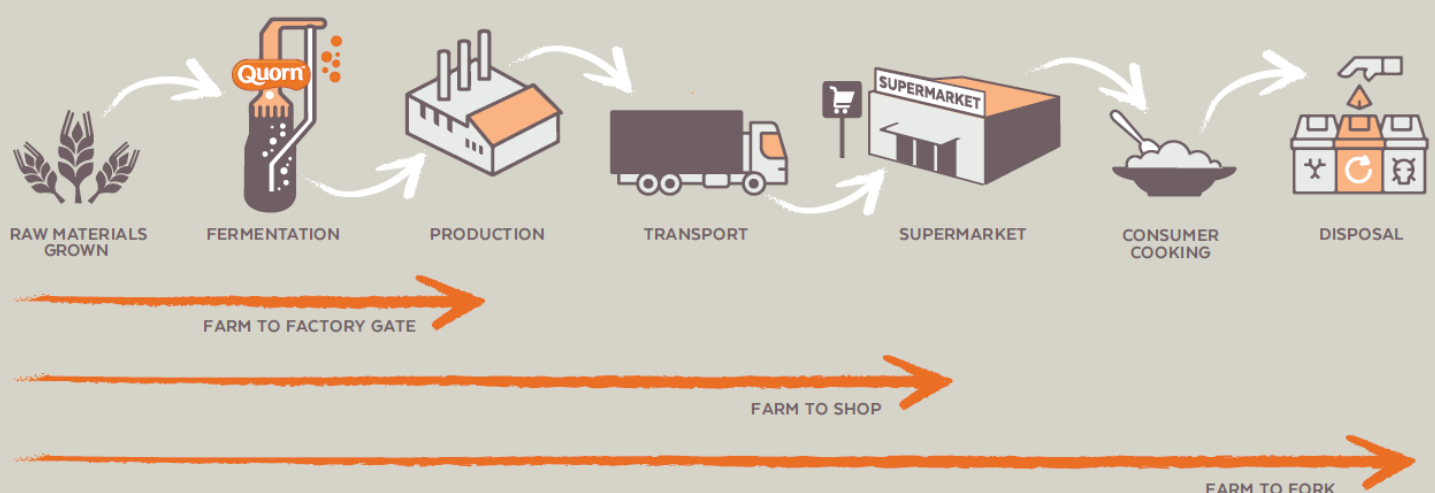
Our products are assessed against:

- PAS 2050:2011 – Specification for the assessment of the life cycle greenhouse gas emissions of goods and services
- Greenhouse Gas Protocol - Product Life Cycle Accounting and Reporting Standard (2011)
- Product Carbon Footprints: Requirements for Certification v2

The values shown in the Footprinting Results represent the carbon footprints of our products using 'Farm to Factory Gate', 'Farm to Shop' and 'Farm to Fork' boundaries. All carbon footprints are third-party accredited and verified by the Carbon Trust.

'Farm to Factory Gate' accounts for all greenhouse gases emitted from farming the ingredients to extracting raw materials, manufacturing and packing the product, as well as all energy and transportation used throughout. 'Farm to Shop' adds the additional transport, storage and distribution to the supermarket. Whereas 'Farm to Fork' considers emissions right up until the end of the product's life, including storage, cooking of the Quorn product and finally disposal of the packaging.

All carbon footprints are measured in kgCO₂e (kg of carbon dioxide equivalent), which measures all greenhouse gases in one unit relative to the global warming potential of carbon dioxide.





Footprinting Results

The tables below reveal the 2021 and 2023 carbon footprints for a range of our products, verified by the Carbon Trust.

Mycoprotein

kgCO₂e / kg
(Farm to Factory Gate)

Chilled mycoprotein	0.5
Frozen mycoprotein	0.9

Sweden

Frozen Products

	Pack Weight (g)	Serving Size (g)	Farm to Factory Gate		Farm to Shop		Farm to Fork	
			kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving
Mince	300	75	1.37	0.10	1.58	0.12	1.87	0.14
Mince	600	75	1.54	0.12	2.27	0.17	2.27	0.17
Pieces	300	75	1.34	0.10	1.94	0.15	1.98	0.15
Pieces	600	75	1.43	0.11	2.06	0.15	1.87	0.14
Fillets	312	52	1.24	0.06	1.80	0.09	1.83	0.10
Premium Burger	320	80	1.78	0.14	2.17	0.17	2.50	0.20

Chilled Products

	Pack Weight (g)	Serving Size (g)	Farm to Factory Gate		Farm to Shop		Farm to Fork	
			kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving
Vegan Slices with Smoked Flavour	100	25	2.45	0.06	2.81	0.07	2.99	0.07
Vegan ChiQin Slices	100	25	2.48	0.06	2.84	0.07	3.01	0.08





UK

Frozen Products

	Pack Weight (g)	Serving Size (g)	Farm to Factory Gate		Farm to Shop		Farm to Fork	
			kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving
Mince	300	75	1.26	0.09	1.89	0.14	2.06	0.15
Mince	500	75	1.35	0.10	2.00	0.15	2.13	0.16
Pieces	300	75	1.21	0.09	1.84	0.14	2.02	0.15
Pieces	500	75	1.49	0.11	2.15	0.16	2.27	0.17
Steak Strips	300	75	1.61	0.12	2.21	0.17	2.40	0.18
Vegan Pieces	280	70	1.50	0.10	2.16	0.15	2.29	0.16
Balls	300	75	1.66	0.12	2.30	0.17	2.50	0.19
Crispy Nuggets	300	80	1.70	0.14	2.41	0.19	4.44	0.36
Crispy Nuggets	476	80	1.45	0.12	1.67	0.13	4.25	0.34
Southern Fried Bites	300	94	1.62	0.15	1.86	0.18	3.62	0.34
Vegan Nuggets	280	70	1.72	0.12	1.96	0.14	4.86	0.34
Sausages	336	84	1.29	0.11	2.58	0.22	3.10	0.26
Sausages	504	84	1.47	0.12	2.09	0.18	2.28	0.19
Bacon Style Slices	150	37	2.75	0.10	3.57	0.13	3.78	0.14
Roast	454	90	2.41	0.22	3.08	0.28	6.11	0.55
Beef Roast	400	100	2.72	0.27	3.39	0.34	6.00	0.60
Ham Roast	400	100	2.34	0.23	3.02	0.30	5.50	0.55
Vegan Steak Bake	300	150	3.66	0.55	0.22	0.03	1.60	0.24
Roarsomes Vegan Dinosaurs	240	80	1.29	0.10	1.51	0.12	4.00	0.32
Vegan Hot & Spicy Burger	264	66	1.54	0.10	2.16	0.14	4.85	0.32
Quarter Pounder	227	114	1.81	0.21	3.11	0.35	4.71	0.54
Sausage Patties	168	42	2.48	0.10	3.25	0.14	3.42	0.14
Chicktastic Burgers	252	63	2.10	0.13	2.75	0.17	5.40	0.34
Southern Fried Burgers	252	63	2.11	0.13	2.77	0.17	5.40	0.34
Cheese & Broccoli Escalope	240	120	3.13	0.38	3.83	0.46	5.42	0.65
Garlic Mushroom Escalope	240	120	3.73	0.45	4.50	0.54	5.83	0.70
Vegetarian Fillets	312	52	1.22	0.06	1.86	0.10	2.04	0.11
Vegan Fillets	252	63	1.86	0.12	2.52	0.16	2.70	0.17
Crispy Fillets	200	100	2.26	0.23	3.03	0.30	5.00	0.50
Garlic & Herb Fillets	200	100	2.39	0.24	3.13	0.31	5.00	0.50
Vegan Crunchy Fillet Burger	200	100	1.81	0.18	2.45	0.25	4.00	0.40





Vegan Crunchy Strips	250	90	1.79	0.16	2.56	0.23	4.44	0.40
Vegan Fishless Fingers	200	60	1.79	0.11	1.99	0.12	5.00	0.30
Chicken & Bacon Lattice	300	150	1.88	0.28	2.59	0.39	4.00	0.60
Steak & Gravy Pies	400	200	1.61	0.32	2.27	0.45	3.50	0.70
Cottage Pie	300	300	1.27	0.38	1.96	0.59	2.83	0.85
Lasagne	300	300	1.59	0.48	2.30	0.69	3.17	0.95
Tikka & Rice	300	300	2.26	0.68	3.03	0.91	4.00	1.20

Chilled Products

	Pack Weight (g)	Serving Size (g)	Farm to Factory Gate		Farm to Shop		Farm to Fork	
			kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving
Mince	350	75	2.74	0.21	3.17	0.24	3.20	0.24
Peppered Steaks	196	98	3.07	0.30	3.54	0.35	3.67	0.36
Emmental Escalope	220	110	4.35	0.48	5.01	0.55	6.36	0.70
Mozzarella & Pesto Escalope	240	120	4.12	0.49	4.64	0.56	1.33	0.16
3 Sausage Roll	210	70	1.35	0.09	1.72	0.12	2.14	0.15
Vegetarian Chicken Slices	170	28	2.85	0.08	3.30	0.09	3.39	0.10
Vegetarian Ham Slices	170	25	2.81	0.07	3.24	0.08	3.43	0.09
Deli Spinach & Red Pepper	100	25	3.41	0.09	3.87	0.10	3.80	0.10
Turkey & Stuffing Slices	170	28	2.65	0.07	3.08	0.09	3.04	0.09
Deli Vegan Pepperoni	100	25	2.19	0.05	2.53	0.06	2.60	0.07
Vegan Chicken-free Slices	100	25	2.34	0.06	2.73	0.07	2.74	0.07
Vegan Smoky Ham-Free Slices	100	25	2.55	0.06	2.95	0.07	3.13	0.08
Vegan Yorkshire Ham Style Slices	105	26.25	2.53	0.07	2.96	0.08	3.14	0.08
Vegan Finely Sliced Ham Style Slices	120	30	2.48	0.07	2.89	0.09	3.07	0.09
Vegan Roast Beef Style Slices	105	26.25	2.56	0.07	2.99	0.08	3.17	0.08
Vegan Roast Chicken Style Slices	105	26.25	2.86	0.08	3.29	0.09	3.48	0.09
Vegan Brilliant Bangers	270	90	2.24	0.20	2.61	0.23	2.78	0.25
Sweet Chilli Bites	180	60	1.54	0.09	1.81	0.11	1.83	0.11





Switzerland

	Country	Pack Weight (g)	Serving Size (g)	Farm to Factory Gate		Farm to Shop		Farm to Fork	
				kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving
Pieces	Switzerland	200	75	2.17	0.16	2.66	0.20	2.83	0.21
Mince	Switzerland	230	75	2.22	0.17	2.75	0.21	2.93	0.22

Asia Pacific

	Country	Pack Weight (g)	Serving Size (g)	Farm to Factory Gate		Farm to Shop		Farm to Fork	
				kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving	kgCO ₂ e / kg of Product	kgCO ₂ e / Serving
Mince	Australia	300	75	1.62	0.12	4.22	0.32	4.67	0.35
Pieces	Australia	300	75	1.48	0.11	3.92	0.29	4.27	0.32
Vegan Fillets	Australia	252	63	1.70	0.11	3.39	0.21	4.76	0.30
Mince	New Zealand	300	75	1.62	0.12	3.20	0.24	3.33	0.25
Pieces	New Zealand	300	75	1.48	0.11	3.05	0.23	2.93	0.22
Mince	Philippines	300	75	1.57	0.12	3.86	0.29	4.27	0.32
Pieces	Philippines	300	75	1.45	0.11	3.86	0.29	4.27	0.32
Mince	Singapore	300	75	1.57	0.12	3.71	0.28	4.27	0.32
Pieces	Singapore	300	75	1.45	0.11	3.65	0.27	4.27	0.32

