

GLOBAL

INGOT® FLOUR AND MILLING GLOBAL DATABASE

INTAKE RAW MATERIALS		FLOURS		CO-PRODUCTS
HARD WHEAT (UNGROUND)	HARD WHEAT (GROUND)	BREAD	BISCUIT	WHEAT BRAN
SOFT WHEAT (UNGROUND)	SOFT WHEAT (GROUND)	WHOLE MEAL	CAKE	
DURUM WHEAT (UNGROUND)	DURUM WHEAT (GROUND)	SEMOLINA		

PARAMETERS

PARAMETER	INTAKE	FLOURS	CO-PRODUCTS
Moisture	•	•	•
Colour		•	•
Protein	•	•	
Resistance		•	
Extensibility		•	
Water Absorption		•	
Ash		•	•
Starch Damage		•	
SKCS	•	•	
Hagberg Indicator	•	•	
Fibre		•	•

FLOURS

INGOT® FLOUR PERFORMANCE DATA

Parameter %	Min	Max	SEC	SECV	R ²
Moisture	8.45	15.90	0.11	0.12	0.984
Protein	7.8	16.2	0.09	0.09	0.997
Water Absorption	47.0	73.0	0.77	0.78	0.957
Starch Damage	2.0	47.0	2.42	2.49	0.860

Wavelength range 1100-2500nm

“Power your NIR with INGOT®”

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INGOT® FEED AND FEED INGREDIENTS GLOBAL DATABASE					
PROPERTY	MIN	MAX	N	R ²	INGOT ORIGINS
MOISTURE	2.1	21.6	36,000+	0.952	Examples: UK & IRELAND, EU, USA, AUSTRALIA, SE ASIA, PAKISTAN, INDIA, CHINA, ARGENTINA, JAPAN, MALAYSIA, NORWAY ICELAND, PERU, BRAZIL
OIL	0.1	61.6	27,000+	0.998	
PROTEIN	1.7	61.7	39,000+	0.994	
FIBRE	0.1	36.5	15,000+	0.974	
ASH	0.7	59.4	22,000+	0.962	
STARCH	0.1	77.5	6,000+	0.988	

Wavelength Range 1100nm-2500nm / Data on an as received basis

FINISHED FEEDS						FEED INGREDIENTS					
DAIRY	LAYERS	CREEP	HORSE	SOYA MEAL	COPRA	OATS	TRITICALE	MAIZE GLUTEN FEED	FISH MEAL	PEAS & RAPE MIX	BEAN
SHEEP	TURKEY	STARTER	PONY	SUN-FLOWER	COCOA MEAL	RICE	WHEAT FEED (BRAN)	BISCUITS	SHEA NUTS	LINSEED	GRASS MEAL
BEEF	DUCK	GROWER	FISH FEED	RAPESEED (EXTRACT)	CORN GLUTEN MEAL	WHEAT	OATS (BRAN)	CITRUS PULP	LOCUST	MAIZE GERM	LUCERNE MEAL
CALF	BROILER	SOW		LINSEED	CORN (MAIZE)	RYE	RICE (BRAN)	SUGAR BEET PULP	FULL FAT SOYA	PEAS	ALFALFA
GOAT				COTTON SEED MEAL	BARLEY	SORGHUM	DISTILLERY PRODUCTS	PALM KERNEL	RAPESEED	LUPIN	MEAT & BONE MEAL

BROILER

INGOT® BROILER FINISHED FEED PERFORMANCE DATA						
Parameter	Min	Max	SEC	SECV	R ²	
Moisture	6.3	16.8	0.34	0.35	0.944	
Oil	2.3	13.8	0.34	0.36	0.969	
Protein	13.2	35.5	0.64	0.65	0.947	
Fibre	1.2	8.2	0.46	0.48	0.835	
Ash	3.3	14.3	0.50	0.52	0.769	

SOYAMEAL

INGOT® SOYAMEAL PERFORMANCE DATA						
Parameter	Min	Max	SEC	SECV	R ²	
Moisture	3.6	15.9	0.55	0.57	0.921	
Oil	0.1	11.4	0.35	0.36	0.962	
Protein	43.0	59.3	1.17	1.19	0.976	
Fibre	1.2	10.1	0.72	0.74	0.910	
Ash	5.5	9.7	0.67	0.68	0.821	

WHEAT

INGOT® WHEAT PERFORMANCE DATA						
Parameter	Min	Max	SEC	SECV	R ²	
Moisture	8.9	17.1	0.32	0.34	0.903	
Oil	1.3	2.5	0.14	0.16	0.721	
Protein	6.8	13.8	0.27	0.29	0.942	
Ash	1.6	2.5	0.13	0.15	0.860	

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