

nuevo<sup>S.A.</sup>

PRODUCTS & SERVICES FOR THE LIVESTOCK INDUSTRY



# Energy Mix

## Complementary feed for pigs

- ✓ Produced from food industry ingredients of high digestibility and nutritional value (surplus products from: bakery and pasta industry, confectionery industry, cereal production for breakfast industry, crisps and snacks industry, chocolate and biscuits industry, wheat feed).
- ✓ Ideal combination of heat-treated ingredients with high energy value and natural sweeteners.
- ✓ Enhances dry matter intake & improves digestibility of the ration.
- ✓ Mixed profile of polyunsaturated & saturated fatty acids.

# Energy Mix

## Complementary feed for pigs

- ✓ Constant chemical analysis (indicative)
  - Crude protein -> 10,0%
  - Crude oil -> 15,0%
  - Ash -> 3,0%
  - Dry matter -> 90,0 %
  - Sodium (Na) -> 0,35 %
  - Energy (NE pigs) -> 13,22 MJ/Kg  
(NE sows) - > 13,41 MJ/Kg

# Energy Mix

## Complementary feed for pigs

✓ Feeding recommendations:

- Suckling and weaned piglets up to 25%
- Grower up to 15%
- Finishers up to 15%
- Lactating sows up to 25%

...**Energy Mix** can replace in the diet Soybean meal, Maize and Soybean oil, with the following benefits:

- Increase feed's palatability
- Increase feed intake
- Improve nutrients utilization
- Improve growth and FCR

# Energy Mix

## Complementary feed for pigs

✓ Feed mill application:

150 Kg **Energy Mix** can replace:

- 15 to 17,5 Kg Soybean oil
- 10 Kg Soybean meal 44%
- 122,5 Kg Maize or/and Wheat

... while ensure that both the SID AA profile and the feed energy content are balanced.

# Energy Mix

## Complementary feed for pigs

### Piglets rations

Raw Materials	Creep	Creep	8-12 Kg	8-12 Kg	12-25 Kg	12-25 Kg
Maize	475	349,5	486,25	363,375	490,5	365,5
Barley	200	200	200	200	250	250
Wheat Bran	-	-	30	30	30	30
Soybean meal 44%	107,5	97,5	112,5	102,5	134	124
<b>Energy Mix</b>	-	<b>150</b>	-	<b>150</b>	-	<b>150</b>
Soybean oil	15	-	17,5	-	15	-
Nuevolac 20/20	50	50	-	-	-	-
Sweat whey	50	50	50	50	-	-
Fishmeal 68%	50	50	50	50	50	50
Limestone	2,5	3	3,75	4	5,5	5,5
START 15 5%	50	50	50	50	-	-
CM 892 2.5%	-	-			25	25

# Energy Mix

## Complementary feed for pigs

### Dietary analysis

Analysis	Creep	Creep	8-12 Kg	8-12 Kg	12-25 Kg	12-25 Kg
NE pigs, MJ/Kg	10,75	10,75	10,55	10,55	10,45	10,45
Crude protein %	18	18	17,7	17,7	17,5	17,5
SID Lys, gr/Kg	12	12	11,75	11,75	11,25	11,25
SID Met + Cys/Lys, %	58,5	58	59	59	59	59
SID Thre/Lys, %	65	65	65	65	65	65
SID Tryp/Lys, %	19	19	19,5	19,3	18,5	19
SID Val/Lys, %	68	68	68	68	68	68
Ca, gr/Kg	7	7	7,2	7,2	7,3	7,3
Av. P, gr/Kg	4	4	4	4	4	4
Na, %	0,18	0,22	0,175	0,21	0,2	0,25

# Energy Mix

## Complementary feed for pigs

### Pigs Rations

Raw Materials	25-50 Kg	25-50 Kg	50-80 Kg	50-80 Kg	80-110 Kg	80-110 Kg
Maize	442,5	317,5	375,5	250,5	365,5	281,5
Barley	250	250	300	300	350	350
Wheat Bran	60	60	90	90	90	90
Soybean meal 44%	203,5	193,5	193,5	183,5	158,5	152,5
<b>Energy Mix</b>	-	<b>150</b>	-	<b>150</b>	-	<b>100</b>
Vegetable fat					5	
Soybean oil	15	-	15	-	5	-
Limestone	9	9	11	11	11	11
CM 774 2%	20	20	-	-	-	-
CM 886 1.5%	-	-	15	15	15	15



# Energy Mix

## Complementary feed for pigs

### Dietary analysis

Analysis	25-50 Kg	25-50 Kg	50-80 Kg	50-80 Kg	80-110 Kg	80-110 Kg
NE pigs, MJ/Kg	10,1	10,15	9,9	9,9	9,85	9,85
Crude Protein %	16,9	17,1	16,5	16,5	15,4	15,4
SID Lys, gr/Kg	10,5	10,6	9,25	9,25	8,5	8,5
SID Met + Cys/Lys, %	59	59	60	60	60	60
SID Thre/Lys, %	65	64,5	65	65	65	65
SID Tryp/Lys, %	19	19	19	19	19	19
SID Val/Lys, %	66	66	70	70	71	71
Ca, gr/Kg	8	8	8,4	8,3	8,3	8,3
Av. P, gr/Kg	3	3	3	3	2,85	2,85
Na, %	0,16	0,20	0,18	0,22	0,18	0,215

# Energy Mix

## Complementary feed for pigs

### Lactating sows rations

Raw Materials	Lactation	Lactation
Maize	348,5	181,5
Barley	275	275
Wheat Bran	120	120
Soybean meal 44%	181	170
Fishmeal 68%	25	25
<b>Energy Mix</b>	-	<b>200</b>
Soybean oil	22,5	-
Limestone	13	13,5
CM 884 1.5 %	15	15

# Energy Mix

## Complementary feed for pigs

### Dietary analysis

Analysis	Lactation	Lactation
NE sows, MJ/Kg	10,15	10,15
Crude protein %	17,5	17,6
SID Lys, gr/Kg	9	9
SID Met + Cys/Lys, %	55	55
SID Thre/Lys, %	64	64
SID Tryp/Lys, %	21	21
SID Val/Lys, %	66	66
Ca, gr/Kg	10	10
Av. P, gr/Kg	4	4
Na, %	0,215	0,255

# Energy Mix

## Complementary feed for pigs

### Trial No1/Piglets fixed feed consumption

	Energy Mix (20% inclusion)	Control
Piglets	200	200
Weaning age	27	27
Weaning Weight - Kg	5.74	5.69
Weight 14D PW - Kg	8.98	8.56
Weight 45D PW - Kg	25.36	23.17
ADG 14D - g/day	231	202
ADG 45D - g/day	436	389
FCR (Wean - 45D PW)	1.580	1.773

#### Trial notes:

- Piglets were fed a standard of 31 Kg feed in total (0,5 Kg creep + 5 Kg starter + 25.5 Kg of weaner)
- Trial was done during summer
- Feed waste was not measured

# Energy Mix

## Complementary feed for pigs

Trial No2/Piglets up to 65 days of age

	Energy Mix (15% inclusion)	Control
Piglets	520	535
Weaning age	27	31
Weaning Weight - Kg	8.13	8.97
Weight 65 Days - Kg	26.36	23.98
ADG - g/day	479	441
Mortality - %	0.82	1.62
Total Feed Intake	34.5	32.5
Nutrition cost/Kg gain *	0.655	0.671
Scouring	+	+++++

**Trial notes:**

- a. Piglets were fed: 1 Kg creep + 5 Kg 2<sup>nd</sup> stage + Weaner feed up to 65 Days
- b. Creep: 1.2 €/Kg + 2<sup>nd</sup> Stage: 0.75 €/Kg + Weaner feed: 0.398 €/Kg (Energy) – 0.383 €/Kg (Control)
- c. Control & Energy mix diets were of the same NE and SID AA profile
- d. SID AA profile was 58-65-19-67-58 for Met+Cys-Thre-Tryp-Val-Iso
- e. Scouring was scored visually

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## Complementary feed for pigs

Trial No3/Piglets 6-8 Kg

<b>Control</b>	<b>Piglets</b>	<b>Weight in</b>	<b>Weight out</b>	<b>ADG</b>	<b>Feed Intake</b>	<b>FCR</b>
Group 1	50	6.74	7.5	109	117	1.073
Group 2	54	6.63	7.8	167	212	1.269
Group 3	60	6.42	6.97	79	124	1.570
Group 4	45	6.69	7.36	95	155	1.632
<b>Total</b>	<b>209</b>	<b>6.609</b>	<b>7.395</b>	<b>112.359</b>	<b>151.737</b>	<b>1.350</b>
<b>Energy Mix 15% OIL – 20%</b>						
Group 1	50	6.86	7.84	140	171	1.221
Group 2	44	6.05	7.25	180	221	1.228
Group 3	58	6.76	7.86	158	197	1.247
Group 4	50	6.58	7.36	111	154	1.387
<b>Total</b>	<b>202</b>	<b>6.586</b>	<b>7.598</b>	<b>146.703</b>	<b>185.149</b>	<b>1.262</b>