

Poulin Grain Feed Carbohydrate Contents

POULIN HORSE FEED	ESC	STARCH	NSC
EQUI-PRO®			
MVP	5.6	4.1	9.7
E-Tec	4.0	8.4	12.4
Carb Safe	3.3	3.0	6.3
Mare & Foal	4.8	32.8	37.6
Performance 10:8	4.9	23.2	28.1
Performance 10:12	4.8	22.0	26.8
PerforMax 12:12	5.1	20.4	25.5
Pro-Max 12:12	4.8	13.9	18.7
Premium Senior	7.6	19.7	27.3
Fibre Max	9.3	8.2	17.5
SPRINT™			
Challenger	5.0	20.7	25.7
Endurance 11%	4.2	28.7	32.9
Sprint 12%	4.8	29.1	33.9
Sprint 14%	5.4	27.0	32.4
STABLEMATE™			
Complete 14%	5.4	9.1	14.5
Complete Sweet 12%	5.1	25.0	30.1
Complete Sweet 14%	5.6	21.5	27.1
Stable Plus 11%	3.9	22.6	26.5
FORAGE EXTENDER™			
Pellet Mini Bites	2.2	3.9	6.1
Pellet Super Bites	2.2	3.9	6.1

NON STRUCTURAL CARBOHYDRATES (NSC):

Non-Structural Carbohydrates are the plant cell contents. These can be broken into: Ethanol Soluble Carbohydrate (ESC) and Starch. The NSC value is roughly equivalent to ESC + Starch. Nutritionists are slowly removing the term NSC and are only referring to, ESC and starch.

ETHANOL SOLUBLE CARBOHYDRATES (ESC):

These carbohydrates are extracted from a sample using an ethanol solution. This represents the sugar fractions that directly influence blood sugar, and the most rapidly fermentable fructans. The simple sugars are digested in the small intestine and fructans are fermented in the hind gut.

STARCH:

A polysaccharide composed of repeating glucose units. Starch is found mainly in cereal grains and is typically digested in the small intestine. Starch is also found in small amounts in many types of hay.

RECOMMENDATIONS FOR HORSES AT RISK FOR, OR SUFFERING FROM CARBOHYDRATE SENSITIVE DISORDERS:

Disorders include: Obesity, Insulin Resistance, Cushings, Laminitis, Metabolic Syndrome, Tying-Up, and Grain Intolerance.

- We need to evaluate the ESC + Starch value of the total ration (forage, concentrate & supplements).
 - Sick Horse: ESC + Starch < 8%
 - Non-Sick Sensitive Horse: ESC + Starch <10%
 - Concerned Customer: ESC + Starch <12%

If you would like help balancing an appropriate diet for your horse including forage carbohydrate analysis, contact your local Poulin Grain representative.



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