PRODUCT TECHNICAL DATA SHEET · GRAINS AND FLOUR

Yellow corn

ORIGIN
Brazil

Yellow Corn · Grade 2 (Type 2)

REFERENCE	REVISION	DATE	HS CODE
PGC-FT-MAI-BR	01	Nov 8, 2026	1005.90





01 GENERAL IDENTIFICATION

Product	Yellow corn, whole grain (*Zea mays* L.)
Class and type	Yellow class (≥ 95% yellow kernels) · Type 2 under IN MAPA No. 60/2011
Group (kernel consistency)	Flint, dent, semi-flint or mixed PENDING
Country of origin	Brazil · producing state and origin silo PENDING
Crop	First or second crop (“safrinha”) and crop year PENDING
Intended use	Industry and animal feed (catalog)
Sales department	Polo Group Company · the exporter is the producer or trader at origin, named in the contract

02 TECHNICAL DESCRIPTION

Brazilian yellow corn grain for industry and feed, with yearly programs and staggered shipments (catalog). In Brazil, corn is graded under IN MAPA No. 60/2011, in force since July 1, 2012: group by kernel consistency, class by color, and type (1, 2 or 3) by the limits for burnt, damaged, broken and insect-bored kernels and foreign matter and impurities.

The name “Grade 2” is used in international trade by analogy with USDA U.S. No. 2. For corn of Brazilian origin, the official equivalent is **Type 2** of the Brazilian standard; USDA limits are shown for reference only.

CATALOG Polo Group 2026 catalog condition
STANDARD legal or regulatory limit
REFERENCE indicative value, not guaranteed
PENDING to be confirmed with the exporter

03 ANALYTICAL SPECIFICATIONS

Table 1 · Grain quality parameters

PARAMETER	VALUE	UNIT	METHOD	STATUS
TYPE 2 · IN MAPA NO. 60/2011 (BRAZIL)				
Yellow kernels (Yellow class)	**≥ 95**	%	IN 60/2011 grading	STANDARD
Burnt kernels	**≤ 2.00**	%	IN 60/2011 grading	STANDARD
Damaged kernels (total)	**≤ 10.00**	%	IN 60/2011 grading	STANDARD
Broken kernels	**≤ 4.00**	%	IN 60/2011 grading	STANDARD
Foreign matter and impurities	**≤ 1.50**	%	IN 60/2011 grading	STANDARD
Insect-bored kernels	**≤ 3.00**	%	IN 60/2011 grading	STANDARD
COMMERCIAL REFERENCE				
Recommended moisture for trading	**≤ 14**	%	ISO 6540 · ISO 712	REFERENCE
U.S. NO. 2 GRADE · USDA 7 CFR 810.404 (REFERENCE ONLY)				
Minimum test weight	**≥ 54.0**	lb/bu	USDA FGIS	REFERENCE
Heat-damaged kernels	**≤ 0.2**	%	USDA FGIS	REFERENCE
Damaged kernels (total)	**≤ 5.0**	%	USDA FGIS	REFERENCE
Broken corn and foreign material (BCFM)	**≤ 3.0**	%	USDA FGIS	REFERENCE
CONTRACT PARAMETERS TO BE AGREED WITH THE EXPORTER				
Guaranteed maximum moisture	**—**	%	ISO 6540 · ISO 712	PENDING
Test weight	**—**	kg/hL	Test weight scale	PENDING
Protein	**—**	%	ISO 16634-1 · NIR	PENDING
Live insects	**—**	—	Lot inspection	PENDING

Type 2 of IN MAPA No. 60/2011 as reproduced by the Federation of Agriculture of the State of Paraná (FAEP). The standard does not set a maximum grading moisture; 14% is the commercial recommendation that accompanied the new standard. USDA values belong to another official system and do not guarantee the Brazilian lot.

04 FOOD SAFETY AND CONTAMINANTS

PARAMETER	LIMIT	REGULATORY REFERENCE	STATUS
Aflatoxin B1 / sum of B1, B2, G1, G2	**≤ 5.0 / 10.0 µg/kg**	Reg. (EU) 2023/915 · corn to be sorted before human consumption	STANDARD
Fumonisins (B1 + B2)	**≤ 4,000 µg/kg**	Reg. (EU) 2023/915 · unprocessed corn	STANDARD
Deoxynivalenol (DON)	**≤ 1,500 µg/kg**	Reg. (EU) 2024/1022 · unprocessed corn, from 07/01/2024	STANDARD
Zearalenone	**≤ 350 µg/kg**	Reg. (EU) 2023/915 · unprocessed corn	STANDARD
Ochratoxin A	**≤ 5.0 µg/kg**	Reg. (EU) 2023/915 · unprocessed cereals	STANDARD
Lead (Pb) / Cadmium (Cd)	**≤ 0.20 / 0.10 mg/kg**	Reg. (EU) 2023/915 · cereals	STANDARD
Pesticide residues	**MRL**	Codex MRLs · Reg. (EC) 396/2005 if the destination is the EU	STANDARD
Feed limits	**—**	Dir. 2002/32/EC and EU recommendations · depending on use	PENDING

The EU limits in this table are those for food; other limits apply to feed. For destinations outside the EU, the importing country's rules apply. Mycotoxin analysis of the lot PENDING

GMO. Most Brazilian corn is genetically modified (88.4% of the area according to Céleres, 2016/17 season) REFERENCE GMO or non-GMO status of the lot: PENDING

Allergens. Corn is not listed among the allergens in Annex II of Regulation (EU) No 1169/2011.

05 CERTIFICATIONS

CERTIFICATION	SCOPE	STATUS
GMP+ FSA	Feed safety, if the destination is animal feed	PENDING
Non-GMO certificate	Per lot, only if non-genetically modified corn is contracted	PENDING
Grading certificate	Per lot, class and type under IN MAPA No. 60/2011	PER SHIPMENT
Phytosanitary certificate	Per shipment, issued by MAPA (Brazil)	PER SHIPMENT
Quality and weight certificate	Per shipment, issued by an independent inspector (SGS or equivalent)	PER SHIPMENT

No certification is considered confirmed until a current copy of the certificate in the name of the exporter or the silo is received.

06 PACKAGING

Packaging (catalog)	Bulk · big bags · 50 kg bags
Bag and big bag material	Fabric type, inner liner and big bag capacity PENDING
Marking	Product, class and type, net weight, lot, crop year and origin PENDING

07 COMMERCIAL AND LOGISTICS TERMS

Table 2 · Commercial and logistics

ITEM	CONDITION	STATUS
Presentation	Yellow corn, whole grain · yearly programs with staggered shipments	CATALOG
Packaging	Bulk · big bags · 50 kg bags	CATALOG
Palletizing	Bags per pallet or floor-loaded	PENDING
Container	20′	CATALOG
Capacity	±26 t per 20′ container (≈ 520 bags of 50 kg)	CATALOG
Incoterms® 2020	FOB · CFR · CIF depending on destination	CATALOG
Port of loading	Named in the contract · see origin note	PENDING
Price and availability	On request · weekly quote at origin market prices	CATALOG
Documents	Commercial invoice · packing list · bill of lading (B/L) · certificate of origin · phytosanitary certificate · lot grading certificate · quality and weight certificate (SGS or equivalent) · mycotoxin analysis · fumigation certificate and GMO declaration if required by the destination	BY DESTINATION

The number of bags per container is calculated from the load stated in the catalog (26,000 kg ÷ 50 kg).

08 STORAGE AND SHELF LIFE

- Clean, dry, ventilated silo or warehouse, protected from rain, with pest control.
- Dry, clean, odor-free container; protection against condensation depending on the route PENDING
- Keep grain moisture within specification and monitor temperature and aeration to prevent heating, mold and mycotoxins.
- Shelf life and storage conditions guaranteed by the exporter PENDING

09 ADDITIONAL INFORMATION

Origin. Brazil grows corn in two crops: the first (summer) crop and the second crop or “safrinha”, which in Mato Grosso reached about 58 million t in 2025/26, a record REFERENCE

Exports. From January to September 2026 Brazil exported 19.6 million t of corn (15% less than in 2025). The Northern Arc ports (Barcarena, Santarém, Itacoatiara and Itaqui) handled 51.2%, Santos 27.6%, Paranaguá 7.9% and Rio Grande 7.4% (Conab).

References. IN MAPA No. 60/2011 (Brazil) · USDA 7 CFR 810.404 · Regulations (EU) 2023/915, 2024/1022, 1169/2011 and (EC) 396/2005 · Directive 2002/32/EC · ISO methods.

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