Wheat

TB20FS005
16Q2F4237 (Exp)

1. TB20FS005 is a male-fertile hard red spring wheat B-Line developed by BASF for use in the production of A-Line seed for commercial hybrid production.

2. TB20FS005 was selected for its adaptation to the hard red spring wheat region of the US and for its ability to optimize hybrid heterosis and seed production in combination with its associated A-Line.

3. Genetic integrity and purity of TB20FS005 was ensured by molecular genetic comparisons to the A-Line and by producing B-Line seed in isolated production plots separate from the blocks in which it was grown as a maintainer of its associated A-Line

4. No claims about the disease/pest resistance are made at this time.

5. Identifying characteristics –

1. Kind:	Common, Hard Red Spring Wheat		
2. Seasonal Growth Habit:	Spring	16. Awn Type:	Awned
3. Coleoptile Color:	White	17. Awn Color:	Tan
4. Juvenile Growth Habit:	Semi-Erect	18. Glume Color:	Tan
5. Leaf Color at Boot:	Green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Re-curved, Not Twisted, Not Waxed	20. Shoulder Shape:	Rounded
7. Auricle Color:	White	21. Shoulder Width:	Narrow
8. Day(s) to 50% Heading:	50	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Short
10. Anthoncyanin:	Absent	24. Glume Pubescence:	Absent
11. Plant Height (cm):	77.5	25. Seed Color	Red
12. Internodes:	Hollow	26. Seed Shape:	Oval
13. Spike Shape:	Oblong	27. Cheeks:	Angular
14. Spike Density:	Mid Dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	30

30. Other Physiological/Biochemical Traits:

31. Variants and Frequency: True variants that may occur are white wheat seed at a frequency up to 0.04%, talls, chaff color, sterile heads, and awnless, all together, up to 1%.

6. Recognized classes of TB20FS005 are Breeder, Foundation, Registered, and Certified seed. Certified seed will be grown from Foundation or Breeder seed by designated BASF associates utilizing appropriately isolated B-Line production fields to maintain genetic integrity and purity. No royalty fees or licensing agreements are anticipated.

7. Certified seed of TB20FS005 will likely be available for planting in fall of 2024.

8. Application for PVP is anticipated with the option that TB20FS005 can be sold by variety name only as a class of Certified seed.

9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 4, 2022 Date recommended by the VRB: Jun 9, 2022